

Appendix G  
Supporting Documentations  
From VISTAS



*(This page intentionally left blank)*



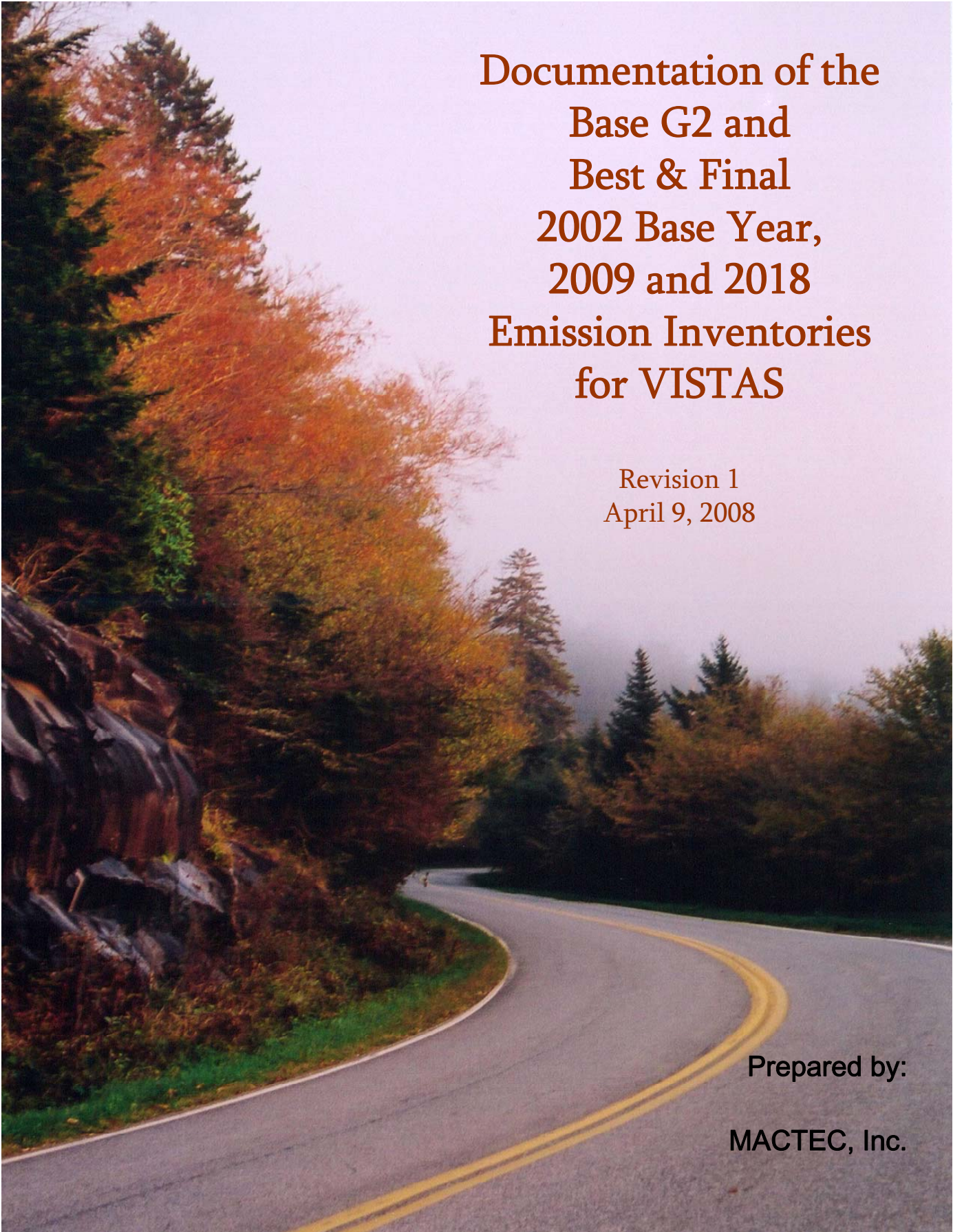
## TABLE OF CONTENTS

|  |     |
|--|-----|
| Documentation of the Base G2 and Best & Final 2002 Base Year, 2009 and 2018 Emission Inventories for VISTAS (October 2008) ..... | 1   |
| Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 version), Pechan .....                      | 342 |
| Technical Memorandum: Control Packet Developmet and Data Sources (July 2004), Alpine Geophysics .....                            | 401 |



*(This page intentionally left blank)*





# Documentation of the Base G2 and Best & Final 2002 Base Year, 2009 and 2018 Emission Inventories for VISTAS

Revision 1  
April 9, 2008

Prepared by:

**MACTEC, Inc.**



---

**Documentation of the  
Base G2 and Best & Final  
2002 Base Year, 2009 and 2018  
Emission Inventories for VISTAS  
Revision 1**

**Prepared for:**

**Visibility Improvement State and Tribal Association of the Southeast  
(VISTAS)**

**April 9, 2008**

**Prepared by:**

**MACTEC Engineering and Consulting, Inc.**



**William R. Barnard  
Sr. Principal Scientist**



**Edward Sabo  
Principal Scientist**

---

*MACTEC, Inc.*



## Table of Contents

|  |            |
|--|------------|
| <b>Introduction .....</b>  | <b>1</b>   |
| <b>1.0 2002 BASE YEAR INVENTORY DEVELOPMENT .....</b>                                | <b>9</b>   |
| 1.1 POINT SOURCES.....   | 9          |
| 1.1.1 <i>Development of 2002 Point Source Inventory .....</i>                        | <i>9</i>   |
| 1.1.1.1 Data Sources .....   | 10         |
| 1.1.1.2 Initial Data Evaluation .....  | 11         |
| 1.1.1.3 PM Augmentation .....  | 12         |
| 1.1.1.4 EGU Analysis .....   | 15         |
| 1.1.1.5 QA Review of Base F Inventory .....  | 16         |
| 1.1.1.6 Additional Base G Updates and Corrections.....                               | 17         |
| 1.1.1.7 Summary of Best & Final 2002 Inventory .....                                 | 19         |
| 1.1.2 <i>Development of Typical Year EGU inventory.....</i>                          | <i>23</i>  |
| 1.2 AREA SOURCES .....   | 25         |
| 1.2.1 <i>Development of a “typical” year fire inventory .....</i>                    | <i>26</i>  |
| 1.2.2 <i>Development of non-fire inventory .....</i>                                 | <i>35</i>  |
| 1.2.3 <i>2002 Base G inventory updates .....</i>                                     | <i>38</i>  |
| 1.2.3.1 Changes resulting from State review and comment .....                        | 38         |
| 1.2.4 <i>Ammonia and paved road emissions.....</i>                                   | <i>42</i>  |
| 1.2.5 <i>Global Changes Made for Base G.....</i>                                     | <i>42</i>  |
| 1.2.6 <i>Quality Assurance steps.....</i>  | <i>44</i>  |
| 1.3 MOBILE SOURCES .....   | 45         |
| 1.3.1 <i>Development of on-road mobile source input files and VMT estimates.....</i> | <i>46</i>  |
| 1.3.1.1 Emissions from on-road mobile sources .....                                  | 47         |
| 1.3.2 <i>Development of non-road emission estimates.....</i>                         | <i>50</i>  |
| 1.3.2.1 Emissions from NONROAD model sources.....                                    | 50         |
| 1.3.2.2 Emissions from Commercial Marine Vessels, Locomotives, and Airplanes.....    | 66         |
| <i>Base G Revisions: .....</i>   | <i>82</i>  |
| 1.3.2.3 Emissions from NONROAD Model Sources in Illinois, Indiana, and Ohio .....    | 88         |
| 1.3.3 <i>Quality Assurance steps.....</i>  | <i>90</i>  |
| <b>2.0 PROJECTION INVENTORY DEVELOPMENT.....</b>                                     | <b>91</b>  |
| 2.1 POINT SOURCES.....   | 91         |
| 2.1.1 <i>EGU Emission Projections .....</i>  | <i>91</i>  |
| 2.1.1.1 Chronology of the Development of EGU Projections.....                        | 91         |
| 2.1.1.2 VISTAS IPM runs for EGU sources .....  | 96         |
| 2.1.1.3 Post-Processing of IPM Parsed Files .....                                    | 96         |
| 2.1.1.4 Eliminating Double Counting of EGU Units .....                               | 98         |
| 2.1.1.5 Quality Assurance Steps .....  | 100        |
| 2.1.1.6 S/L Adjustments to IPM Modeling Results for Base G Projections.....          | 100        |
| 2.1.1.7 S/L Adjustments to IPM Modeling Results for Base G2 2018 Projections.....    | 101        |
| 2.1.1.8 S/L Adjustments to IPM Modeling Results for Best & Final Projections.....    | 110        |
| 2.1.1.9 Conversion of MRPO BaseM 2009 EGU Data to SMOKE Input Format .....           | 114        |
| 2.1.1.10 Summary of 2009/2018 EGU Point Source Inventories .....                     | 114        |
| 2.1.2 <i>Non-EGU Emission Projections .....</i>                                      | <i>118</i> |



|         |   |     |
|---------|---|-----|
| 2.1.2.1 | Growth assumptions for non-EGU sources .....                              | 118 |
| 2.1.2.2 | Source Shutdowns.....   | 120 |
| 2.1.2.3 | Control Programs applied to non-EGU sources .....                         | 122 |
| 2.1.2.4 | Quality Assurance steps .....   | 125 |
| 2.1.2.5 | Additional Base G Updates and Corrections.....                            | 125 |
| 2.1.2.6 | Additional Best & Final Updates and Corrections .....                     | 127 |
| 2.1.2.7 | Conversion of MRPO BaseM 2009 non-EGU Data to SMOKE Input Format .....    | 128 |
| 2.1.2.8 | Summary of the 2009/2018 non-EGU Point Source Inventories .....           | 129 |
| 2.2     | AREA SOURCES .....  | 133 |
| 2.2.1   | <i>Stationary area sources</i> .....                                      | 133 |
| 2.2.1.1 | Stationary area source controls .....                                     | 134 |
| 2.2.1.2 | Stationary area source growth.....  | 136 |
| 2.2.1.3 | Differences between 2009/2018.....  | 137 |
| 2.2.2   | <i>Agricultural area sources</i> .....                                    | 137 |
| 2.2.2.1 | Control assumptions for agricultural area sources .....                   | 138 |
| 2.2.2.2 | Growth assumptions for agricultural area sources .....                    | 138 |
| 2.2.3   | <i>Changes to Prescribed Fire for 2009/2018 Base G</i> .....              | 143 |
| 2.2.4   | <i>Quality Assurance steps</i> .....                                      | 148 |
| 2.3     | MOBILE SOURCES .....  | 148 |
| 2.3.1   | <i>Development of on-road mobile source input files</i> .....             | 151 |
| 2.3.1.1 | Preparation of revised 2018 input data files .....                        | 151 |
| 2.3.1.2 | Preparation of initial 2009 input data files .....                        | 154 |
| 2.3.2   | <i>VMT Data</i> .....   | 155 |
| 2.3.3   | <i>Base G Revisions</i> .....   | 160 |
| 2.3.4   | <i>Development of non-road emission estimates</i> .....                   | 160 |
| 2.3.4.1 | NONROAD model sources.....  | 160 |
| 2.3.4.2 | Non-NONROAD model sources.....  | 163 |
| 2.3.4.3 | Emissions from NONROAD Model Sources in Illinois, Indiana, and Ohio ..... | 198 |
| 2.3.4.4 | Differences between 2009/2018.....  | 198 |
| 2.3.5   | <i>Quality Assurance steps</i> .....                                      | 199 |

**Appendix A:** State Emission Totals by Pollutant and Sector**Appendix B:** State VMT totals**Appendix C:** State Tier 1 Emission Totals**Appendix D:** VISTAS Tier 1 Emission Totals**Appendix E:** Aircraft PM Excerpt from 2001 Tucson Report**Appendix F:** Comparison of Base F and Base G On-Road Mobile Emissions**Appendix G:** Conversion of MRPO Base M Point Source Data to SMOKE Input Format**Appendix H:** EGU Controls for Coal and Oil/gas Units for the Base G/G2 Inventory**Appendix I:** EGU Controls for Coal and Oil/gas Units for the B&F Inventory



## List of Tables

|              |   |
|--------------|---|
| Table I-1    | Inventory Version in Use by Year and Source Sector Through B&F - 2002   |
| Table I-2    | Inventory Version in Use by Year and Source Sector Through B&F - 2009   |
| Table I-3    | Inventory Version in Use by Year and Source Sector Through B&F - 2018   |
| Table 1.1-1  | State Data Submittals Used for the Base F 2002 Point Source Inventory.  |
| Table 1.1-2  | Comparison of Particulate Matter Emissions from the S/L Data Submittals and the Base G 2002 VISTAS Point Source Inventory                           |
| Table 1.1-3  | Summary of Updates and Corrections to the Base F 2002 Inventory Incorporated into the 2002 Base G Inventory.  |
| Table 1.1-4  | Base G / B&F 2002 VISTAS Point Source Inventory for SO <sub>2</sub> (tons/year).  |
| Table 1.1-5  | Base G / B&F 2002 VISTAS Point Source Inventory for NO <sub>x</sub> (tons/year).  |
| Table 1.1-6  | Base G / B&F 2002 VISTAS Point Source Inventory for VOC (tons/year).  |
| Table 1.1-7  | Base G / B&F 2002 VISTAS Point Source Inventory for CO (tons/year).   |
| Table 1.1-8  | Base G / B&F 2002 VISTAS Point Source Inventory for PM <sub>10</sub> -PRI (tons/year).  |
| Table 1.1-9  | Base G / B&F 2002 VISTAS Point Source Inventory for PM <sub>2.5</sub> -PRI (tons/year).   |
| Table 1.1-10 | Base G / B&F 2002 VISTAS Point Source Inventory for NH <sub>3</sub> (tons/year).  |
| Table 1.1-11 | Comparison of SO <sub>2</sub> and NO <sub>x</sub> Emissions (tons/year) for EGUs.   |
| Table 1.2-1  | Emissions from Fires in the VISTAS Region – Comparison between Original Base Year 2002 (VISTAS 3.1), 2002 Actual and Typical Year Base G Emissions. |
| Table 1.2-2  | Summary of State Data Submittals for the 2002 VISTAS Area Source Base F Inventory   |
| Table 1.2-3  | Data Source Codes and Data Sources for VISTAS 2002 Base F Area Source Emissions Inventory.  |
| Table 1.3-1  | Representative day mapping for January episode  |
| Table 1.3-2  | Summary of Base F NONROAD Modeling Revisions  |
| Table 1.3-3  | Base F NONROAD Input File Sequence and Structural Revisions   |
| Table 1.3-4  | Summary of Base G NONROAD Modeling Revisions  |
| Table 1.3-5  | Spring 2006 NONROAD Input File Sequence and Structural Revisions  |
| Table 1.3-6  | Initial 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions as Reported in February 2004 Pechan Report (annual tons)         |
| Table 1.3-7  | PM-to-NO <sub>x</sub> Ratios by Aircraft Type In Initial 2002 Base Year Inventory.  |
| Table 1.3-8  | Tucson, AZ PM-to-NO <sub>x</sub> Ratios by Aircraft Type.   |
| Table 1.3-9  | Non-Corresponding Aircraft Emissions Records  |
| Table 1.3-10 | Initial 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions with Modified Aircraft PM Emission Rates (annual tons)           |



**List of Tables (continued)**

|              |   |
|--------------|---|
| Table 1.3-11 | Change in Initial 2002 Base Year Emissions due to Aircraft PM Emission Rate Modifications.                          |
| Table 1.3-12 | CERR Aircraft NO <sub>x</sub> Records with No Corresponding PM Record.  |
| Table 1.3-13 | Calculated Emission Ratios for VA.  |
| Table 1.3-14 | Base F 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions (tons/year)                       |
| Table 1.3-15 | Change in 2002 Emissions, Base F Inventory Relative to Initial Inventory  |
| Table 1.3-16 | Base F Comparison of Aircraft Emissions<br>(Airports with Aircraft NO <sub>x</sub> > 200 tons per year)             |
| Table 1.3-17 | Base G VA Aircraft Records Updates  |
| Table 1.3-18 | Calculated Base G Emission Ratios for VA.   |
| Table 1.3-19 | Base G-Revised 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions (tons/year)               |
| Table 1.3-20 | Change in 2002 Emissions, Base G Inventory<br>Relative to Base F Inventory  |
| Table 1.3-21 | Base G Comparison of Aircraft Emissions<br>(Airports with Aircraft NO <sub>x</sub> > 200 tons per year)             |
| Table 1.3-22 | Non-Default Files Used for MRPO Modeling  |
| Table 2.1-1  | Adjustments to IPM Control Determinations Specified by S/L Agencies<br>for the Base G/G2 2009/2018 EGU Inventories. |
| Table 2.1-2  | Other Adjustments to IPM Results Specified by S/L Agencies<br>for the Base G/G2 2009/2018 EGU Inventories.          |
| Table 2.1-3  | Additional Adjustments to IPM Results Specified by S/L Agencies<br>for the B&F 2009/2018 EGU Inventories.           |
| Table 2.1-4  | EGU Point Source SO <sub>2</sub> Emission Comparison for 2002/2009/2018.  |
| Table 2.1-5  | EGU Point Source NO <sub>x</sub> Emission Comparison for 2002/2009/2018.  |
| Table 2.1-6  | EGU Point Source VOC Emission Comparison for 2002/2009/2018.  |
| Table 2.1-7  | EGU Point Source CO Emission Comparison for 2002/2009/2018.   |
| Table 2.1-8  | EGU Point Source PM <sub>10</sub> -PRI Emission Comparison for 2002/2009/2018.                                      |
| Table 2.1-9  | EGU Point Source PM <sub>2.5</sub> -PRI Emission Comparison for 2002/2009/2018.                                     |
| Table 2.1-10 | EGU Point Source NH <sub>3</sub> Emission Comparison for 2002/2009/2018.  |
| Table 2.1-11 | Summary of Source Shutdowns Incorporated in Base G Inventory.   |
| Table 2.1-12 | Non-EGU Point Source Control Programs Included in<br>2009/2018 Projection Inventories.                              |
| Table 2.1-13 | Summary of Updates and Corrections Incorporated into the<br>Base G 2009/2018 Non-EGU Inventories.                   |



**List of Tables (continued)**

|              |  |
|--------------|--|
| Table 2.1-14 | Summary of Updates and Corrections Incorporated into the B&F 2009/2018 Non-EGU Inventories.  |
| Table 2.1-15 | Non-EGU Point Source SO <sub>2</sub> Emission Comparison for 2002/2009/2018.   |
| Table 2.1-16 | Non-EGU Point Source NO <sub>x</sub> Emission Comparison for 2002/2009/2018.   |
| Table 2.1-17 | Non-EGU Point Source VOC Emission Comparison for 2002/2009/2018.   |
| Table 2.1-18 | Non-EGU Point Source CO Emission Comparison for 2002/2009/2018.  |
| Table 2.1-19 | Non-EGU Point Source PM <sub>10</sub> -PRI Emission Comparison for 2002/2009/2018.   |
| Table 2.1-20 | Non-EGU Point Source PM <sub>25</sub> -PRI Emission Comparison for 2002/2009/2018.   |
| Table 2.1-21 | Non-EGU Point Source NH <sub>3</sub> Emission Comparison for 2002/2009/2018.   |
| Table 2.2-1  | 2002 Base Year Emissions and Percentage Difference for Base F and Base G (based on actual emissions).  |
| Table 2.2-2  | 2009 Projection Year Emissions and Percentage Difference for Base F and Base G (based on actual emissions).                                  |
| Table 2.2-3  | 2018 Projection Year Emissions and Percentage Difference for Base F and Base G (based on actual emissions).                                  |
| Table 2.2-4  | Percentage Difference Between Base F and Base G Fire Emissions by State  |
| Table 2.3-1  | 2002 versus 2018 VMT (million miles per year)  |
| Table 2.3-2  | VMT and HDD Rule Estimates for North Carolina (million miles per year)   |
| Table 2.3-3  | VMT and HDD Rule Estimates for South Carolina (million miles per year)   |
| Table 2.3-4  | VMT and HDD Rule Estimates for Tennessee (million miles per year)  |
| Table 2.3-5  | VMT and HDD Rule Estimates for Virginia (million miles per year)   |
| Table 2.3-6  | Pre-Base F 2002 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons, as of the fall of 2004)                            |
| Table 2.3-7  | Locally Generated Growth Factors for North Carolina  |
| Table 2.3-8  | Estimated Emission Reduction Impacts based on T-4 Rule   |
| Table 2.3-9  | Estimated Emission Reduction Impacts Relative to VISTAS 2002 Base Year Values  |
| Table 2.3-10 | Diesel CMV Adjustment Ratios for Palm Beach County, FL   |
| Table 2.3-11 | Overall Adjustment Factors for Palm Beach County, FL   |
| Table 2.3-12 | SO <sub>2</sub> Emissions for Diesel Rail in Autauga County, AL from the CAIR Projections  |
| Table 2.3-13 | Growth Options based on CAIR Data  |
| Table 2.3-14 | Base F 2009 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories |
| Table 2.3-15 | Base F 2018 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories |
| Table 2.3-16 | Change in Emissions between 2009 and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)                           |



### **List of Tables (continued)**

|              |  |
|--------------|--|
| Table 2.3-17 | Change in Emissions between 2018 and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)                           |
| Table 2.3-18 | Base G 2002 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons)  |
| Table 2.3-19 | Locally Generated Growth Factors for Kentucky  |
| Table 2.3-20 | Base G 2009 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories |
| Table 2.3-21 | Base G 2018 Aircraft, Locomotive, and Non-Recreational Marine Emissions (annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories |
| Table 2.3-22 | Change in Emissions between 2009 Base G and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)                    |
| Table 2.3-23 | Change in Emissions between 2018 Base G and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)                    |



## List of Figures

- Figure 1.2-1 CO Emissions from Agricultural Burning for the Original Base Year, 2002 Actual Base G, and 2002 Typical Base G Inventories.
- Figure 1.2-2 CO Emissions from Land Clearing Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.
- Figure 1.2-3. CO Emissions from Prescribed Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.
- Figure 1.2-4 CO Emissions from Wildfire Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.
- Figure 2.2-1 Prescribed Fire Projection for Okefenokee NWR for 2009
- Figure 2.3-1 Impacts of the Apparent CAIR Inventory Discrepancy
- Figure 2.3-2 Total Aircraft, Locomotive, and CMV CO Emissions (Base F)
- Figure 2.3-3 Locomotive CO Emissions (Base F)
- Figure 2.3-4 Total Aircraft, Locomotive, and CMV NO<sub>x</sub> Emissions (Base F)
- Figure 2.3-5 Locomotive NO<sub>x</sub> Emissions (Base F)
- Figure 2.3-6 Total Aircraft, Locomotive, and CMV PM<sub>10</sub> Emissions (Base F)
- Figure 2.3-7 Locomotive PM<sub>10</sub> Emissions (Base F)
- Figure 2.3-8 Total Aircraft, Locomotive, and CMV PM<sub>2.5</sub> Emissions (Base F)
- Figure 2.3-9 Locomotive PM<sub>2.5</sub> Emissions (Base F)
- Figure 2.3-10 Total Aircraft, Locomotive, and CMV SO<sub>2</sub> Emissions (Base F)
- Figure 2.3-11 Locomotive SO<sub>2</sub> Emissions (Base F)
- Figure 2.3-12 Total Aircraft, Locomotive, and CMV VOC Emissions (Base F)
- Figure 2.3-13 Locomotive VOC Emissions (Base F)
- Figure 2.3-14 Total Aircraft, Locomotive, and CMV CO Emissions (Base G)
- Figure 2.3-15 Locomotive CO Emissions (Base G)
- Figure 2.3-16 Total Aircraft, Locomotive, and CMV NO<sub>x</sub> Emissions (Base G)
- Figure 2.3-17 Locomotive NO<sub>x</sub> Emissions (Base G)
- Figure 2.3-18 Total Aircraft, Locomotive, and CMV PM<sub>10</sub> Emissions (Base G)
- Figure 2.3-19 Locomotive PM<sub>10</sub> Emissions (Base G)
- Figure 2.3-20 Total Aircraft, Locomotive, and CMV PM<sub>2.5</sub> Emissions (Base G)
- Figure 2.3-21 Locomotive PM<sub>2.5</sub> Emissions (Base G)
- Figure 2.3-22 Total Aircraft, Locomotive, and CMV SO<sub>2</sub> Emissions (Base G)
- Figure 2.3-23 Locomotive SO<sub>2</sub> Emissions (Base G)
- Figure 2.3-24 Total Aircraft, Locomotive, and CMV VOC Emissions (Base G)
- Figure 2.3-25 Locomotive VOC Emissions (Base G)



## Acronyms and Abbreviations

|                  |  |
|------------------|--|
| AEO              | Annual Energy Outlook  |
| AF&PA            | American Forest and Paper Association                          |
| APCD             | Air Pollution Control District                                 |
| ATP              | Anti-Tampering Program   |
| BLRID            | Boiler Identification (Boiler ID)                              |
| CAA              | Clean Air Act  |
| CAIR             | Clean Air Interstate Rule                                      |
| CEM              | Continuous Emissions Monitoring                                |
| CAMD             | Clean Air Markets Division                                     |
| CERR             | Consolidated Emissions Reporting Rule                          |
| CMU              | Carnegie Mellon University                                     |
| CMV              | commercial marine vessels                                      |
| CE               | Control Efficiency   |
| CO               | carbon monoxide  |
| DENR             | North Carolina Department of Environment and Natural Resources |
| DHEC             | South Carolina Department of Health and Environmental Control  |
| EDMS             | Emissions Data Management Systems                              |
| ESD              | Emissions Standards Division                                   |
| EPA              | Environmental Protection Agency                                |
| EGU              | Electric Generating Unit                                       |
| ICF              | ICF International, Inc.  |
| FIP              | Federal Implementation Plan                                    |
| FLM              | Federal Land Manager   |
| FTP              | File transfer protocol   |
| FR               | Federal Register   |
| FS               | Forest Service   |
| HDD              | Heavy Duty Diesel  |
| HDD RULE         | Heavy Duty Diesel Rule   |
| ICF              | ICF International, Inc.  |
| ID               | Identification   |
| I/M              | Inspection and Maintenance                                     |
| IPM <sup>®</sup> | Integrated Planning Model <sup>®</sup>                         |
| IAQTR            | Interstate Air Quality Transport Rule                          |
| LTO              | Landing and take off   |
| MACT             | Maximum achievable control technology                          |



**Acronyms and Abbreviations (continued)**

|                        |   |
|------------------------|---|
| MACTEC                 | MACTEC Engineering and Consulting, Inc.   |
| MOBILE 6               | MOBILE emissions estimation model version 6   |
| MRPO                   | Midwest Regional Planning Organization  |
| NH <sub>3</sub>        | Ammonia   |
| NEI                    | National Emission Inventory   |
| NIF                    | National Emission Inventory Format  |
| NLEV                   | National Low Emission Vehicle regulation  |
| NMIM                   | National Mobile Inventory Model   |
| NONROAD                | no acronym (model name)   |
| NO <sub>x</sub>        | Oxides of nitrogen  |
| NWR                    | National Wildlife Refuge  |
| OTB                    | On the books  |
| OTW                    | On the way  |
| ORIS                   | Office of Regulatory Information Systems  |
| OTAQ                   | Office of Transportation and Air Quality  |
| OTC                    | Ozone Transport Commission  |
| PFC                    | Portable fuel containers  |
| PM                     | Particulate matter  |
| PM <sub>10</sub> -FIL  | Particulate matter less than or equal to 10 microns in diameter that can be captured on a filter  |
| PM <sub>10</sub> -PRI  | Particulate matter less than or equal to 10 microns in diameter that includes both the filterable and condensable components of particulate matter  |
| PM <sub>2.5</sub> -FIL | Particulate matter less than or equal to 2.5 microns in diameter that can be captured on a filter   |
| PM <sub>2.5</sub> -PRI | Particulate matter less than or equal to 2.5 microns in diameter that includes both the filterable and condensable components of particulate matter |
| PM-CON                 | Particulate matter created by the condensation of hot materials to form particulates, usually less than 2.5 microns in diameter                     |
| ppmW                   | parts per million by weight   |
| PRI                    | Primary   |
| QA/QC                  | Quality Assurance/Quality Control   |
| QAPP                   | Quality Assurance Project Plan  |
| REMI                   | Regional Economic Models, Inc.  |
| RFG                    | Reformulated gasoline   |
| RVP                    | Reid Vapor Pressure   |



### **Acronyms and Abbreviations (continued)**

|                 |  |
|-----------------|--|
| SCC             | Source Classification Code   |
| SIP             | State Implementation Plan  |
| SIWG            | Special Interest Workgroup   |
| S/L/T           | State/Local/Tribal   |
| SMOKE           | Sparse Matrix Operator Kernel Emissions Modeling System              |
| S/L             | State and Local  |
| SO <sub>2</sub> | Oxides of Sulfur   |
| T4              | Tier 4   |
| VISTAS          | Visibility Improvement State and Tribal Association of the Southeast |
| VMT             | Vehicle Miles Traveled   |
| VOC             | Volatile organic compounds   |
| WRAP            | Western Regional Air Partnership                                     |



## **Documentation of the Base G2 and Best & Final 2002 Base Year, 2009 and 2018, Emission Inventories for VISTAS**

### **Introduction**

Base G2 document was delivered final in Aug (?) 2007. In fall 2007 states updated specific point source EGU and non-EGU facility record in Best and Final (B&F) inventories for 2009 and 2018 to account for BART controls, consent decrees, corrections to Base G2, and source specific controls. Only EGU and non-EGU point source records were changed. Area, non-road, on-road remained the same as Base G2. In this report all records for area, non-road, and on-road were used in B&F modeling the same as Base G2. This report has been updated from the Base G2 report submitted in July 2007 just for B&F changes to EGU and non-EGU sources. A history of the development of the VISTAS inventory follows. Specific sections of the document detail the modifications made as the inventory progressed from Base F through B&F.

The Base G2 inventory included changes in 2018 controls on specific electric generating units in GA, FL, NC, and WV. There were no changes in 2009 controls for EGU and no changes between the Base G and Base G2 inventories for non-EGU point, on-road, non-road, or area sources in 2009 or 2018. The Base G2 modeling run included changes for 2018 EGU controls plus corrections in 2002 typical, 2009, and 2018 for errors in emissions processing in Base G. These corrections in emissions processing are not seen when comparing the Base G and G2 inventory files.

Base G and Base G2 inventories represent two separate model runs, as does the B&F. Since Base G2 supersedes Base G, VISTAS will maintain only the Base G2 and B&F model files since both were used in State Implementation Plan submittals.

### **History of VISTAS Base and Projection Year Emission Inventory Development**

This section is provided to supply the history behind the development of the base and projection year inventories provided to the Visibility Improvement State and Tribal Association of the Southeast (VISTAS) and the Association for Southeast Integrated Planning (ASIP). Through the various iterations, the inventories that have been developed have typically had version numbers provided by the contractors who developed the inventories and to a certain extent these were also based on their purpose. Different components of the 2002 base year inventories have been supplied by E.H. Pechan and Associates, Inc. (Pechan), MACTEC Engineering and Consulting, Inc.



(MACTEC), and by Alpine Geophysics, Inc. (AG). The projection year inventories were developed by MACTEC and AG.

The initial 2002 base year inventory was jointly developed by Pechan and MACTEC. Pechan developed the on-road and non-road mobile source components of the inventory while MACTEC developed the point and area source component of the inventory. This version of the inventory included updates to on-road mobile that incorporated information from the 1999 NEI Version 2 final along with updated information on VMT, fuel programs, and other inputs to the MOBILE6 model to produce a draft version of the 2002 inventory. For non-road sources, a similar approach was used. Updated State information on temperatures and fuel characteristics were obtained from VISTAS States and used with the NONROAD 2002 model to calculate 2002 emissions for NONROAD model sources. These estimates were coupled with data for commercial marine vessels, locomotives and airplanes projected to 2002 using appropriate growth surrogates. A draft version of these inventories was prepared in late 2003, with a final version in early 2004. An overview of the development of the on-road component can be found at: [http://www.vistas-sesarm.org/documents/Pechan\\_drafton-roadinventory\\_082803.ppt](http://www.vistas-sesarm.org/documents/Pechan_drafton-roadinventory_082803.ppt) while an overview of the non-road component can be found at: [http://www.vistas-sesarm.org/documents/Pechan\\_Non-roadInventory\\_082803.ppt](http://www.vistas-sesarm.org/documents/Pechan_Non-roadInventory_082803.ppt).

Similarly, draft versions of the 2002 point and area source base year inventories were prepared by MACTEC in the same timeframe (late 2003 for the draft, final in early 2004). The point source component was based on data submitted by the VISTAS States or on the 1999 NEI. The data submitted by the States ranged from 1999 to 2001 and was all projected to 2002 using appropriate growth surrogates from Economic Growth Analysis System (EGAS) version 4. Toxic Release Inventory (TRI) data were used to augment the inventory for NH<sub>3</sub>. Continuous Emissions Monitor (CEM) data from the U.S. EPA's Clean Air Markets Division was used to supply emissions for electric generating utilities (EGUs). Particulate matter emissions were augmented (when missing) by using emission factor ratios. Details on all these calculations are discussed in Section 1.1.1.3 of this document.

The area source component of the 2002 draft base year emissions was prepared similarly to the point sources, using State submittals and the 1999 NEI Version 2 final as the basis for projecting emissions to 2002 using EGAS growth factors. For ammonia area sources the Carnegie Mellon University (CMU) ammonia model was used to calculate emissions. Finally, data on acreage burned on a fire by fire basis was solicited from State forestry agencies in order to calculate fire emissions on a fire by fire basis. Virtually all VISTAS State forestry agencies provided data for these calculations at least for wild and



prescribed fires. An overview of the point and area source development methods can be found at:

[http://www.vistas-sesarm.org/documents/MACTEC\\_draftpointareainventory\\_82803.ppt](http://www.vistas-sesarm.org/documents/MACTEC_draftpointareainventory_82803.ppt).

Three interim versions of the 2002 base year inventory were developed. The first was delivered in August of 2003, the second in April of 2004 and the final one in October of 2004. The August 2003 and April 2004 inventories were prepared by MACTEC and Pechan. A draft version of the revised 2002 base year inventory was released in June of 2004, with a final version released in October 2004. That 2002 base year inventory was solely prepared by MACTEC. The October 2004 inventory incorporated 2002 Consolidated Emissions Reporting Rule (CERR) data into the inventory along with some updated data from the VISTAS States. This inventory is typically referred to as version 3.1 of the VISTAS inventory.

Closely following the version 3.1 2002 base year inventory, a “preliminary” 2018 projection inventory was developed. This “preliminary” 2018 inventory was developed in late 2004 (Oct/Nov) and was designed solely for use in modeling sensitivity runs to provide a quick and dirty assessment of what “on the books” and “on the way” controls could be expected to provide in terms of improvements to visibility and regional haze impairment. A brief overview of the history of the three versions of the 2002 base year and the 2018 preliminary inventory use can be found at: <http://www.vistas-sesarm.org/documents/STAD1204/2002and2018Emissions14Dec2004.ppt>.

Following preparation of the final 3.1 version of the 2002 base year inventory, States were asked to review and provide comments on that inventory to MACTEC for update and revision. At the same time MACTEC prepared a revised draft version of the 2018 projection inventory (January 2005) and a draft version of a 2009 projection inventory (April 2005). All of these were known as version 3.1 and were provided to the VISTAS States for review and comment. Comments were received and updates to the inventories based on these comments were prepared. The revised inventories were provided to the VISTAS States. At that time to be consistent with the modeling nomenclature being used by AG in performing their modeling runs, the inventory became the Base F VISTAS inventory. The Base F inventory was delivered for review and comment in August of 2005. In addition, MACTEC delivered a report entitled *Documentation of the Revised 2002 Base Year, Revised 2018, and Initial 2009 Emission Inventories for VISTAS* on August 2, 2005 that described the methods used to develop the Base F inventories. For the Electric Generating Utilities (EGU) different versions of the Integrated Planning Model were used between Base D and Base F, resulting in different projections of future EGU emissions.



Over the period from August 2005 until June/July 2006 MACTEC received comments and updates to some categories from VISTAS States, particularly EGU. In addition, a new NONROAD model (NONROAD05) was released. Thus additional updates to the inventory were prepared based on the comments received along with revised NONROAD emission estimates from NONROAD05. The resultant inventory became the Base G inventory.

Following release of the Base G inventory in early 2007, four States specified additional changes to reflect their best estimates of EGU emission levels and controls in 2018. The resulting 2018 EGU emission inventory is referred to as Base G2, which was released in July 2007.

The current version of the VISTAS inventory is referred to as the “Best and Final (B&F)” inventory. States specified additional changes to the point source inventory to reflect improved knowledge of EGU emission levels and controls in 2009 and 2018. States also specified changes to nonEGU sources reflecting new information on anticipated controls and shutdowns. No changes to any other source sector (e.g., area, fire, nonroad, onroad) were made for the B&F inventory. The 2018 B&F inventory was released in October 2007, and the 2009 B&F inventory was released in December 2007.

This document details the development of the Base G/G2/B&F inventories for 2002, 2009 and 2018. The information that follows describes the development of the VISTAS inventory by sector from Base F forward. Unless specific updates were made to an inventory sector, the methods used for Base F were retained. Table I-1 through Table I-3 indicate roughly which version of the inventory is in use for each sector of the inventory as of the B&F inventory.

Under a separate contract, AG was asked to obtain and convert emission inventory data for the five states that make up the Midwest Regional Planning Organization (MRPO) for use by VISTAS/ASIP modelers. Details of this effort are documented in an Appendix to this report.



**Table I-1 Inventory Version in Use by Year and Source Sector Through B&F - 2002**

| Source                  | AL   | FL  | GA  | KY  | MS  | NC   | SC  | TN  | VA   | WV  |
|-------------------------|--|---|---|---|---|--|---|---|--|---|
| <b>EGU</b>              | Base G   | Base G  | Base G  | Base G  | Base G  | Base G   | Base G  | Base G  | Base G   | Base G  |
| <b>Non-EGU Point</b>    | Base F with some source specific revisions in Base G   | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G   | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G  | Base F with some source specific revisions in Base G   | Base F with some source specific revisions in Base G  |
| <b>Area<sup>1</sup></b> | Base F for ammonia sources (CMU Model) and for some area sources, Base G for selected sources updated by the State with State supplied data            | Base F except for some emissions zeroed out (and records removed) for some southern FL counties for Base G. | Base F  | Base F  | Base F  | Base F for ammonia sources (CMU Model) and for some area sources, Base G for selected sources updated by the State with State supplied data. Some corrections applied by MACTEC to correct PM values | Base F  | Base F  | Base F for ammonia Sources (CMU Model) and for some area sources, Base G for selected sources updated by the State with State supplied data.       | Base F  |
| <b>On-road</b>          | Base G   | Base G  | Base G  | Base G  | Base G  | Base G   | Base G  | Base G  | Base G   | Base G  |
| <b>Non-road</b>         | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources, except aircraft and locomotives updated for Base G. | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources           | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources except for aircraft in Cincinnati/N. KY Int. Airport, which are Base G. | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources | Base G for all sources included in the NONROAD model. NC moved from Southern to Mid-Atlantic State in seasonal adjustment file.<br><br>Base F for non-NONROAD model sources                          | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources, except for aircraft emissions which are Base G. | Base G for all sources included in the NONROAD model.<br><br>Base F for non-NONROAD model sources |
| <b>Fires</b>            | Base F Typical   | Base F Typical  | Base F Typical  | Base F Typical  | Base F Typical  | Base F Typical   | Base F Typical  | Base F Typical  | Base F Typical   | Base F Typical  |

**Notes:**

Base G global Area Source changes that apply to ALL States: A) removal of Stage II refueling from area source file to non-road and on-road; B) modification of PM<sub>2.5</sub> ratio for several fugitive dust sources per WRAP methodology; C) addition of portable fuel container (PFC) emissions to all States based on OTAQ report.



**Table I-2 Inventory Version in Use by Year and Source Sector Through B&F - 2009**

| Source                           | AL   | FL  | GA  | KY  | MS  | NC   | SC  | TN  | VA  | WV  |
|----------------------------------|--|---|---|---|---|--|---|---|---|---|
| EGU <sup>1</sup>                 | Best & Final   | Best & Final  | Best & Final  | Best & Final  | Best & Final  | Best & Final   | Best & Final  | Best & Final  | Best & Final  | Best & Final  |
| <b>Non-EGU Point<sup>2</sup></b> | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F         | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F  | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F   | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        |
| <b>Area</b>                      | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                    | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.<br><br>Some specific source categories updated using State supplied file to override projected values. | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   |
| <b>On-road</b>                   | Base G   | Base G  | Base G  | Base G  | Base G  | Base G   | Base G  | Base G  | Base G  | Base G  |
| <b>Non-road</b>                  | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources. | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources except for aircraft in Cincinnati/N. KY Int. Airport, which are Base G using State supplied growth factors. | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources  | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources |
| <b>Fires</b>                     | Base F typical except for Rx fires   | Base F typical  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires   | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  |

**Notes:**

1. All EGU emissions updated with new IPM runs in Base G; additional EGU-specific changes specified by States for Best & Final.
2. Revised growth factors from DOE AEO2006 fuel use projections



**Table I-3 Inventory Version in Use by Year and Source Sector Through B&F - 2018**

| Source                           | AL   | FL  | GA  | KY  | MS  | NC   | SC  | TN  | VA  | WV  |
|----------------------------------|--|---|---|---|---|--|---|---|---|---|
| <b>EGU<sup>1</sup></b>           | Best & Final   | Best & Final  | Best & Final  | Best & Final  | Best & Final  | Best & Final   | Best & Final  | Best & Final  | Best & Final  | Best & Final  |
| <b>Non-EGU Point<sup>2</sup></b> | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F         | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F  | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F   | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        | Base F methodology but with revised growth factors for fuel fired sources in Base G and source-specific changes in B&F        |
| <b>Area</b>                      | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                    | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.<br><br>Some specific source categories updated using State supplied file to override projected values. | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   | Base F with updated AEO growth factors for fuel fired sources. Agricultural ammonia sources from CMU model.                   |
| <b>On-road</b>                   | Base G   | Base G  | Base G  | Base G  | Base G  | Base G   | Base G  | Base G  | Base G  | Base G  |
| <b>Non-road</b>                  | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources. | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources except for aircraft in Cincinnati/N. KY Int. Airport, which are Base G using State supplied growth factors. | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources  | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources | Base G for all sources included in the NONROAD model.<br><br>Base F projection methodology used for non-NONROAD model sources |
| <b>Fires</b>                     | Base F typical except for Rx fires   | Base F typical  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires   | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  | Base F typical except for Rx fires  |

**Notes:**

1. All EGU emissions updated with new IPM runs in Base G; additional EGU-specific changes specified by States for Base G2 and B&F.
2. Revised growth factors from DOE AEO2006 fuel use projections







## **1.0 2002 Base Year Inventory Development**

### **1.1 Point Sources**

This section details the development of the 2002 base year inventory for point sources. There were two major components to the development of the point source sector of the inventory. The first component was the incorporation of data submitted by the Visibility Improvement State and Tribal Association of the Southeast (VISTAS) States and local (S/L) agencies to the United States Environmental Protection Agency (EPA) as part of the Consolidated Emissions Reporting Rule (CERR) requirements. Work on incorporating the CERR data into the revised base year involved: 1) obtaining the data from EPA or the S/L agency, 2) evaluating the emissions and pollutants reported in the CERR submittals, 3) augmenting CERR data with annual emission estimates for PM<sub>10</sub>-PRI and PM<sub>2.5</sub>-PRI; 4) evaluating the emissions from electric generating units, 5) completing quality assurance reviews for each component of the point source inventory, and 6) updating the database with corrections or new information from S/L agencies based on their review of the 2002 inventory. The processes used to perform those operations are described in the first portion of this section.

The second component was the development of a “typical” year inventory for electric generating units (EGUs). VISTAS determined that a typical year electric generating units (EGU) inventory was necessary to smooth out any anomalies in emissions from the EGU sector due to meteorology, economic, and outage factors in 2002. The typical year EGU inventory is intended to represent the five year (2000-2004) period that will be used to determine the regional haze reasonable progress goals. The second part of this section discusses the development of the typical year EGU inventory.

#### ***1.1.1 Development of 2002 Point Source Inventory***

MACTEC developed a draft 2002 emission inventory in June 2004 (*Development of the Draft 2002 VISTAS Emission Inventory for Regional Haze Modeling – Point Sources*, MACTEC, June 18, 2004). The starting point for the draft 2002 emission inventory was EPA’s 1999 National Emission Inventory (NEI), Version 2 Final (NEI99V2). For several states, we replaced the NEI99V2 data with more recent inventories for either calendar year 1999, 2000, or 2001 as submitted by the S/L agencies. We also performed several other updates, including updating emission estimates for selected large source of ammonia, incorporating 2002 Continuous Emissions Monitoring-(CEM)-based SO<sub>2</sub> and NO<sub>x</sub> emissions for electric utilities, adding PM<sub>10</sub> and PM<sub>2.5</sub> emissions when they were missing from an S/L submittal, and performing a variety of additional Quality assurance/Quality control (QA/QC) checks.



The next version of the 2002 inventory (referred to as Base F) was released in August 2005 (*Documentation of the Revised 2002 Base Year, Revised 2018, and Initial 2009 Emission Inventories for VISTAS, MACTEC, August 2, 2005*). The primary task in preparing the Base F 2002 base year inventory was the replacement of NEI99V2 data with data submitted by the VISTAS S/L agencies as part of the CERR submittal and included in EPA's 2002 NEI.

The next version of the 2002 inventory (referred to as Base G) was released in August 2006 and is documented in this report. The primary task in preparing the Base G 2002 base year inventory was the incorporation of corrections and new information as submitted by the S/L agencies based on their review of the Base F inventory. Note that no changes to the Base G 2002 point source inventory were made during the Base G2 and B&F update cycles (in other words, for the 2002 actual and typical inventories, Base G = Base G2 = B&F).

The following subsections document the data sources for the Base G/B&F inventory, the checks made on the CERR submittals, the process for augmenting the inventory with PM<sub>10</sub> and PM<sub>2.5</sub> emissions, the evaluation of EGU emissions, other QA/QC checks, and other Base G updates. The final subsection summarizes the Base G/B&F 2002 inventory by state, pollutant, and sector (EGU and non-EGU).

#### **1.1.1.1 Data Sources**

Several data sources were used to compile the Base F point source inventory: 1) the inventories that the S/L submitted to EPA from May through July 2004 as required by the CERR; 2) supplemental data supplied by the S/L agencies that may have been revised or finalized after the CERR submittal to EPA, and 3) the draft VISTAS 2002 inventory in cases where S/L CERR data were not available. For the Base G inventory, we replaced data from Hamilton County, Tennessee, using data from Hamilton County's CERR submittal as contained in EPA's 2002 NEI inventory (in Base F, the inventory for Hamilton County was based on the draft VISTAS 2002 inventory, which in turn was based on the 1999 NEI).

Table 1.1-1 summarizes the data used as the starting point for the Base F 2002 inventory. Once all of the files were obtained, MACTEC ran the files through the EPA National Emission Inventory Format (NIF) Basic Format and Content checking tool to ensure that the files were submitted in standard NIF format and that there were no referential integrity issues with those files. In a couple of cases small errors were found. For example, in one case non-standard pollutant designations were used for particulate matter (PM) and ammonia emissions. MACTEC contacted each VISTAS State point source contact person to resolve the issues with the files and corrections were made. Once all corrections to the native files were made, MACTEC continued with the incorporation of the data into the VISTAS point source files. S/L agencies completed a detailed review of the Base F inventory. Additional updates and corrections to the Base F



inventory were requested by S/L agencies and incorporated into the Base G inventory. The Base G changes are documented in more detail in Section 1.1.1.6. No additional changes to the Base G inventory were made as part of the Base G2/B&F round of updates.

**Table 1.1-1 State Data Submittals Used for the Base F 2002 Point Source Inventory.**

| State / Local Program   | Point Source Emissions Data Source |
|---|------------------------------------|
| AL  | C                                  |
| FL  | B                                  |
| GA  | B                                  |
| KY  | C                                  |
| MS  | B                                  |
| NC  | C                                  |
| SC  | C                                  |
| TN  | C                                  |
| VA  | B                                  |
| WV  | B                                  |
| Davidson County, TN   | B                                  |
| Hamilton County, TN   | D                                  |
| Memphis/Shelby County, TN   | B                                  |
| Knox County, TN   | B                                  |
| Jefferson County, AL  | B                                  |
| Jefferson County, KY  | B                                  |
| Buncombe County, NC   | B                                  |
| Forsyth County, NC  | B                                  |
| Mecklenburg County, NC  | B                                  |
| <b>Key</b><br>A = Draft VISTAS 2002<br>B = CERR Submittal from EPA's file transfer protocol (FTP) site<br>C = Other (CERR or other submittal sent directly from S/L agency to MACTEC)<br>D = CERR Submittal from EPA's NEI 2002 Final Inventory |                                    |

### 1.1.1.2 Initial Data Evaluation

For the Base F inventory, we conducted an initial review of the 2002 point source CERR data in accordance with the QA procedures specified in the Quality Assurance Project Plan (QAPP) for this project. The following evaluations were completed to identify potential data quality issues associated with the CERR data:

- Compared the number of sites in the CERR submittal to the number of sites in the VISTAS draft 2002 inventory; for all States, the number of sites in the CERR submittal was less than in the VISTAS draft 2002 inventory, since the CERR data was limited to major sources, while the VISTAS draft 2002 inventory contained data for both major and minor sources; verified with S/L contacts that minor sources not included in the CERR point source inventory were included in the CERR area source inventory.



- Checked for correct pollutant codes and corrected to make them NIF-compliant; for example, some S/L agencies reported ammonia emissions using the CAS Number or as “ammonia”, rather than the NIF-compliant “NH<sub>3</sub>” code.
- Checked for types of particulate matter codes reported (i.e., PM-FIL, PM-CON, PM-PRI, PM<sub>10</sub>-PRI, PM<sub>10</sub>-FIL, PM<sub>2.5</sub>-PRI, PM<sub>2.5</sub>-FIL); corrected codes with obvious errors (i.e., changed PMPRI to PM-PRI). (The PM augmentation process for filling in missing PM pollutants is discussed later in Section 1.1.1.3)
- Converted all emission values that weren’t in tons to tons to allow for preparation of emission summaries using consistent units.
- Checked start and end dates in the PE and EM tables to confirm consistency with the 2002 base year.
- Compared annual and daily emissions when daily emissions were reported; in some cases, the daily value was non-zero (but very small) but the annual value was zero. This was generally the result of rounding in an S/L agency’s submittal.
- Compared ammonia emissions as reported in the CERR submittals and the 2002 Toxics Release Inventory; worked with S/L agencies to resolve any outstanding discrepancies.
- Compared SO<sub>2</sub> and NO<sub>x</sub> emissions for EGUs to EPA’s Clean Air Markets Division CEM database to identify any outstanding discrepancies. (A full discussion of the EGU emissions analysis is discussed later in Section 1.1.1.4)
- Prepared State-level emission summaries by pollutant for both the EGU and non-EGU sectors to allow S/L agencies to compare emissions as reported in the 1999 NEI Version 2, the VISTAS draft 2002 inventory, and the CERR submittals.
- Prepared facility-level emission summaries by pollutant to allow S/L agencies to review facility level emissions for reasonableness and accuracy.

We communicated the results of these analyses through email/telephone exchanges with the S/L point source contacts as well as through Excel summary spreadsheets. S/L agencies submitted corrections and updates as necessary to resolve any QA/QC issues from these checks.

### **1.1.1.3 PM Augmentation**

Particulate matter emissions can be reported in many different forms, as follows:

| <b>PM Category</b> | <b>Description</b>                               |
|--------------------|--|
| PM-PRI             | Primary PM (includes filterable and condensable) |



|                        |   |
|------------------------|---|
| PM-CON                 | Primary PM, condensable portion only (all less than 1 micron)   |
| PM-FIL                 | Primary PM, filterable portion only                             |
| PM <sub>10</sub> -PRI  | Primary PM <sub>10</sub> (includes filterable and condensable)  |
| PM <sub>10</sub> -FIL  | Primary PM <sub>10</sub> filterable portion only                |
| PM <sub>2.5</sub> -PRI | Primary PM <sub>2.5</sub> (includes filterable and condensable) |
| PM <sub>2.5</sub> -FIL | Primary PM <sub>2.5</sub> filterable portion only               |

S/L agencies did not report PM emissions in a consistent manner. The State/local inventories submitted for VISTAS included emissions data for either PM-FIL, PM-PRI, PM<sub>10</sub>-FIL, PM<sub>10</sub>-PRI, PM<sub>2.5</sub> -FIL, PM<sub>2.5</sub> -PRI, and/or PM-CON. From any one of these pollutants, EPA has developed augmentation procedures to estimate PM<sub>10</sub>-PRI, PM<sub>10</sub>-FIL, PM<sub>2.5</sub> -PRI, PM<sub>2.5</sub> -FIL, and PM-CON. If not included in a State/local inventory, PM<sub>10</sub>-PRI and PM<sub>2.5</sub> -PRI were calculated by adding PM<sub>10</sub>-FIL and PM-CON or PM<sub>2.5</sub> -FIL and PM-CON, respectively.

The procedures for augmenting point source PM emissions are documented in detail in Appendix C of *Documentation for the Final 1999 National Emissions Inventory {Version 3} for Criteria Air Pollutants and Ammonia – Point Sources*, January 31, 2004). Briefly, the PM data augmentation procedure includes the following five steps:

- Step 1: Prepare S/L/T PM and PM<sub>10</sub> Emissions for Input to the PM Calculator
- Step 2: Develop and Apply Source-Specific Conversion Factors
- Step 3: Prepare Factors from PM Calculator
- Step 4: Develop and Apply Algorithms to Estimate Emissions from S/L/T Inventory Data
- Step 5: Review Results and Update the NEI with Emission Estimates and Control Information.

Please refer to the EPA documentation for a complete description of the PM augmentation procedures.

Table 1.1-2 compares the original PM emission estimates from the S/L CERR submittals and the revised 2002 VISTAS emissions estimates calculated using the above methodology. This table is intended to show that we took whatever States provided in the way of PM and filled in gaps to add in PM-CON where emissions were missing in order to calculate PM<sub>10</sub>-PRI and PM<sub>2.5</sub> -PRI for all processes to get a complete set of particulate data. We did not compare any other pollutants besides PM, since for other pollutants CERR emissions equal VISTAS emissions. As noted in Table 1.1-2, we made significant revisions to the PM emissions for Kentucky in the Base F inventory and for South Carolina in the Base G inventory.



**Table 1.1-2 Comparison of Particulate Matter Emissions from the S/L Data Submittals and the Base G 2002 VISTAS Point Source Inventory**

| State | Database | PM-PRI | PM-FIL | PM-CON | PM <sub>10</sub> -PRI | PM <sub>10</sub> -FIL | PM <sub>2.5</sub> -PRI | PM <sub>2.5</sub> -FIL |
|-------|----------|--------|--------|--------|-----------------------|-----------------------|------------------------|------------------------|
| AL    | CERR     | 28,803 | 9,174  | 0      | 16,522                | 6,548                 | 8,895                  | 4,765                  |
|       | VISTAS   | 43,368 | 33,336 | 10,129 | 32,791                | 22,661                | 23,290                 | 13,328                 |
| FL    | CERR     | 0      | 33,732 | 0      | 0                     | 32,254                | 0                      | 0                      |
|       | VISTAS   | 61,728 | 37,325 | 24,403 | 57,243                | 32,840                | 46,147                 | 21,744                 |
| GA    | CERR     | 42,846 | 0      | 0      | 27,489                | 0                     | 15,750                 | 0                      |
|       | VISTAS   | 44,835 | 37,088 | 7,799  | 33,202                | 25,403                | 22,777                 | 15,085                 |
| KY    | CERR     | 0      | 3,809  | 0      | 19,748                | 1,360                 | 0                      | 0                      |
|       | VISTAS   | 27,719 | 22,349 | 5,329  | 21,326                | 15,963                | 14,173                 | 8,749                  |
| MS    | CERR     | 23,925 | 0      | 0      | 20,968                | 0                     | 10,937                 | 0                      |
|       | VISTAS   | 23,928 | 17,632 | 6,296  | 21,089                | 14,793                | 11,044                 | 5,739                  |
| NC    | CERR     | 48,110 | 0      | 0      | 36,222                | 0                     | 24,159                 | 0                      |
|       | VISTAS   | 48,114 | 41,407 | 6,708  | 36,992                | 30,284                | 27,512                 | 21,113                 |
| SC    | CERR     | 0      | 43,837 | 0      | 0                     | 32,656                | 0                      | 21,852                 |
|       | VISTAS   | 43,844 | 38,633 | 5,210  | 34,799                | 29,588                | 26,418                 | 21,207                 |
| TN    | CERR     | 1,660  | 25,500 | 21,482 | 43,413                | 22,164                | 34,167                 | 12,140                 |
|       | VISTAS   | 56,797 | 32,085 | 24,715 | 50,937                | 26,269                | 41,442                 | 16,774                 |
| VA    | CERR     | 0      | 0      | 0      | 17,065                | 0                     | 12,000                 | 0                      |
|       | VISTAS   | 40,856 | 36,414 | 4,442  | 17,065                | 12,623                | 12,771                 | 8,607                  |
| WV    | CERR     | 0      | 29,277 | 0      | 0                     | 14,778                | 0                      | 8445                   |
|       | VISTAS   | 36,188 | 29,392 | 6,795  | 22,053                | 15,258                | 15,523                 | 8,733                  |

**Note 1:** CERR refers to data as submitted by S/L agencies; VISTAS refers to data calculated by MACTEC using the PM augmentation methodologies described in this document.

**Note 2:** KY DEP's initial CERR submittal reported particulate matter emissions using only PM-PRI pollutant code. MACTEC used this pollutant code during the initial PM augmentation routine. In February 2005, KY DEP indicated that data reported using the PM-PRI code should actually have been reported using the PM<sub>10</sub>-PRI code. MACTEC performed a subsequent PM augmentation in April 2005 using the PM<sub>10</sub>-PRI code. These changes were reflected in the Base F emission inventory.

**Note 3:** South Carolina Department of Health and Environmental Control (SC DHEC) initial CERR submittal reported particulate matter emissions using the PM-FIL, PM<sub>10</sub>-FIL, and PM<sub>2.5</sub>-FIL pollutant codes. MACTEC used these pollutant codes during the initial PM augmentation routine. In August 2005, SC DHEC indicated that data reported using the PM-FIL, PM<sub>10</sub>-FIL, and PM<sub>2.5</sub>-FIL pollutant codes should actually have been reported using the PM-PRI, PM<sub>10</sub>-PRI, and PM<sub>2.5</sub>-PRI codes. MACTEC performed a subsequent PM augmentation in April 2006 using the revised pollutant codes. These changes were reflected in the Base G emission inventory.

**Note 4:** The emission values in the VISTAS emission rows above differ slightly from the final values in the Base G inventory. This is due to several corrections and updates to the 2002 inventory submitted by S/L agencies after the PM augmentation was performed as discussed in Section 1.1.1.6.



After the PM augmentation process was performed, we executed a series of checks to identify potential inconsistencies in the PM inventory. These checks included:

- PM-PRI less than PM<sub>10</sub>-PRI, PM<sub>2.5</sub>-PRI, PM<sub>10</sub>-FIL, PM<sub>2.5</sub>-FIL, or PM-CON;
- PM-FIL less than PM<sub>10</sub>-FIL, PM<sub>2.5</sub>-FIL;
- PM<sub>10</sub>-PRI less than PM<sub>2.5</sub>-PRI, PM<sub>10</sub>-FIL, PM<sub>2.5</sub>-FIL or PM-CON;
- PM<sub>10</sub>-FIL less than PM<sub>2.5</sub>-FIL;
- PM<sub>2.5</sub>-PRI less than PM<sub>2.5</sub>-FIL or PM-CON;
- The sum of PM<sub>10</sub>-FIL and PM-CON not equal to PM<sub>10</sub>-PRI; and
- The sum of PM<sub>2.5</sub>-FIL and PM-CON not equal to PM<sub>2.5</sub>-PRI.

S/L agencies were asked to review this information and provide corrections where the inconsistencies were significant. In general, corrections (or general directions) were provided in the case of the potential inconsistency issues. In other cases, the agency provided specific process level pollutant corrections.

Note that for the Base G inventory, only the PM<sub>10</sub>-PRI and PM<sub>2.5</sub>-PRI emission estimates were retained since they are the only two PM species that are included in the air quality modeling. Other PM species were removed from the Base G inventory to facilitate emissions modeling.

#### **1.1.1.4 EGU Analysis**

We made a comparison of the annual SO<sub>2</sub> and NO<sub>x</sub> emissions for EGUs as reported in the S/L agencies CERR submittals and EPA's Clean Air Markets Division (CAMD) CEM database to identify any outstanding discrepancies. Facilities report hourly CEM data to EPA for units that are subject to CEM reporting requirements of the NO<sub>x</sub> State Implementation Plan (SIP) Call rule and Title IV of the Clean Air Act (CAA). EPA sums the hourly CEM emissions to the annual level, and we compared these annual CEM emissions to those in the S/L inventories. The 2002 CEM inventory containing NO<sub>x</sub> and SO<sub>2</sub> emissions and heat input data were downloaded from the EPA CAMD web site ([www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)).

The first step in the EGU analysis involved preparing a crosswalk file to match facilities and units in the CAMD inventory to facilities and units in the S/L inventories. In the CAMD inventory, the Office of Regulatory Information Systems (ORIS) identification (ID) code identifies unique facilities and the unit ID identifies unique boilers and internal combustion engines (i.e., turbines and reciprocating engines). In the S/L inventories, the State and county FIPS and State facility ID together identify unique facilities and the emission unit ID identifies unique boilers or internal combustion engines. In most cases, there is a one-to-one correspondence between the CAMD identifiers and the S/L identifiers. However, in some of the S/L inventories, the emissions for multiple emission units are summed and reported under one emission unit ID. We created an Excel spreadsheet that contained an initial crosswalk with the ORIS ID and unit ID in the CEM inventory matched to the State and county Federal



Implementation Plan (FIPS), State facility ID, and emission unit ID in the S/L inventory. The initial crosswalk contained both the annual emissions summed from the CAMD database as well as the S/L emission estimate. It should be noted that the initial matching of the IDs in both inventories was based on previous crosswalks that had been developed for the preliminary VISTAS 2002 inventory and in-house information compiled by MACTEC and Alpine Geophysics. The matching at the facility level was nearly complete. In some cases, however, S/L agency or stakeholder assistance was needed to match some of the CEM units to emission units in the S/L inventories.

The second step in the EGU analysis was to prepare an Excel spreadsheet that compared the annual emissions from the hourly CAMD inventory to the annual emissions reported in the S/L inventory. The facility-level comparison of CEM to emission inventory NO<sub>x</sub> and SO<sub>2</sub> emissions found that for most facilities, the annual emissions from the S/L inventory equaled the CAMD CEM emissions. Minor differences could be explained because the facility in the S/L inventory contained additional small or emergency units that were not included in the CAMD database.

The final step was to compare the SO<sub>2</sub> and NO<sub>x</sub> emissions for select Southern Company units in the VISTAS region. Southern Company is a super-regional company that owns EGUs in four VISTAS States – Alabama, Florida, Georgia, and Mississippi – and participates in VISTAS as an industry stakeholder. Southern Company independently provided emission estimates for 2002 as part of the development of the preliminary VISTAS 2002 inventory. In most cases, these estimates were reviewed by the States and incorporated into the States CERR submittal. The exception to this was a decision made by Georgia’s Department of Environmental Protection (GDEP) to utilize CEM-based emissions for the actual 2002 emissions inventory for sources within the State when Southern Company also provided data. There were no major inconsistencies between the Southern Company data, the CAMD data, and the S/L CERR data.

The minor inconsistencies included small differences (<2 percent) in emission estimates, exclusion/inclusion of small gas-fired units in the different databases, and grouping of emission units in S/L CERR submittals where CAMD listed each unit individually. We compared SO<sub>2</sub> and NO<sub>x</sub> emissions on a unit by unit basis and did not find any major inconsistencies.

#### **1.1.1.5 QA Review of Base F Inventory**

QA checks were run on the Base F point source inventory data set to ensure that all corrections provided by the S/L agencies and stakeholders were correctly incorporated into the S/L inventories and that there were no remaining QA issues. After exporting the inventory to ASCII text files in NIF 3.0, the EPA QA program was run on the ASCII files and the QA output was reviewed to verify that all QA issues that could be addressed were resolved.



Throughout the inventory development process, QA steps were performed to ensure that no double counting of emissions occurred, and to ensure that a full and complete inventory was developed for VISTAS. QA was an important component to the inventory development process and MACTEC performed the following QA steps on the point source component of the VISTAS revised 2002 base year inventory:

1. Facility level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources.
2. State-level EGU and non-EGU comparisons (by pollutant) were developed between the Base F 2002 base year inventory, the draft VISTAS 2002 inventory, and the 1999 NEI Version 2 inventory.
3. Data product summaries and raw NIF 3.0 data files were provided to the VISTAS Emission Inventory Technical Advisor and to the Point Source, EGU, and non-EGU Special Interest Work Group representatives for review and comment. Changes based on these comments were reviewed and approved by the S/L point source contact prior to implementing the changes in the files.
4. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from Base F1 to Base F2.

#### **1.1.1.6 Additional Base G Updates and Corrections**

S/L agencies completed a detailed review of the Base F inventory. Table 1.1-3 summarizes the updates and corrections to the Base F inventory that were requested by S/L agencies and incorporated into the Base G inventory.

There was a discrepancy between the base year 2002 and 2009/2018 emissions for PM<sub>10</sub>-PRI, PM<sub>2.5</sub>-PRI, and NH<sub>3</sub>. The 2002 emissions were provided directly by the S/L agencies and were estimated using a variety of techniques (i.e., EPA emission factors, S/L emission factors, site-specific emission factors, and source test data). The 2009/2018 emissions, on the other hand, were estimated by Pechan (see Section 2.1.1.3) using an emission factor file based solely on AP-42 emission factors. An adjustment was made for 2002 EGU PM and NH<sub>3</sub> emissions to reconcile these differences. The post-processed Integrated Planning Model® (IPM®) 2009/2018 output uses a set of PM and NH<sub>3</sub> emission factors that are “the most recent EPA approved uncontrolled emission factors” – these are most likely not the same emission factors used by States and emission inventory preparation contractors for estimating these emissions in 2002 for EGUs in the VISTAS domain. VISTAS performed a set of modifications to replace 2002 base year PM and NH<sub>3</sub> emission estimates with estimates derived from the most recent EPA-approved emission factors. For further details of the methodology used to make this adjustment, see *EGU Emission Factors and Emission Factor Assignment*, memorandum from Greg Stella to VISTAS State Point Source Contacts and VISTAS EGU Special Interest Workgroup, June 13, 2005.



**Table 1.1-3 Summary of Updates and Corrections to the Base F 2002 Inventory  
Incorporated into the 2002 Base G Inventory.**

| Affected State(s) | Nature of Update/Correction   |
|-------------------|---|
| TN, WV            | The latitude and longitude values for TN (except the four local programs) and WV were truncated to two decimal places in the Base F inventory. MACTEC re-exported the NIF ER tables in a manner that so that the latitude and longitude were not truncated in the Base G inventory.   |
| AL                | Corrected the latitude and longitude for two facilities: Ergon Terminalling (Site ID: 01-073-010730167) and Southern Power Franklin (Site ID: 01-081-0036).   |
|                   | Corrections to stack parameters at 10 facilities for stacks with parameters that do not appear to fall into the ranges typically termed "acceptable" for AQ modeling.   |
| FL                | Corrected emission values for the Miami Dade RRF facility (Site ID: 12-086-0250348).  |
| GA                | Hercules Incorporated (12-051-05100005) had an erroneous process id (#3) within emission unit id SB9 and was deleted. This removes about 6,000 tons of SO <sub>2</sub> from the 2002 inventory.   |
|                   | Provided a revised file of location coordinates at the stack level that was used to replace the location coordinated in the ER file.  |
| NC                | <p>Made several changes to Base F inventory to correct the following errors:</p> <ol style="list-style-type: none"> <li>1. Corrected emissions at Hooker Furniture (Site ID: 37-081-08100910), release point G-29, 9211.38 tons volatile organic compounds (VOC's) should be 212.2 tons, 529.58 tons PM<sub>10</sub> should be 17.02 tons, 529.58 tons PM<sub>2.5</sub> should be 15.79 tons in 2002 inventory.</li> <li>2. Identified many stack parameters in the ER file that were unrealistic. Several have zero for height, diameter, gas velocity, and flow rate. NC used the procedures outlined in Section 8 of the document ""National Emission Inventory QA and Augmentation Report" to correct unrealistic stack parameters.</li> <li>3. Identified truncated latitude and longitude values in Base F inventory. NC updated all Title V facility latitude and longitude that was submitted to EPA for those facilities in 2004. Smaller facilities with only two decimal places were not corrected.</li> <li>4. Corrected emissions for International Paper (3709700045) Emission Unit ID, G-12, should be 1.8844 tons VOCs instead of 2819.19 tons in 2002</li> </ol> |
| SC                | Corrected PM species emission values. SC DHEC's initial CERR submittal reported particulate matter emissions using the PM-FIL, PM <sub>10</sub> -FIL, and PM <sub>25</sub> -FIL pollutant codes. In August 2005, SC DHEC indicated that data reported using the PM-FIL, PM <sub>10</sub> -FIL, and PM <sub>25</sub> -FIL pollutant codes should actually have been reported using the PM-PRI, PM <sub>10</sub> -PRI, and PM <sub>25</sub> -PRI codes. MACTEC performed a subsequent PM augmentation in April 2006 using the revised pollutant codes. These changes were reflected in the Base G emission inventory.   |
| TN                | Identified six facilities that closed in 2000/2001 but had non-zero emissions in the 2002 Base F inventory. MACTEC changed emissions to zero for all pollutants in the Base G 2002 inventory.   |
|                   | Supplied updated emission inventory for the Bowater facility (47-107-0012) based on the facility's updated 2002 emission inventory update.  |
|                   | Replaced data from Hamilton County, Tennessee, using data from Hamilton County's CERR submittal as contained in EPA's 2002 NEI (in Base F, the inventory for Hamilton County was based on the draft VISTAS 2002 inventory, which in turn was based on the 1999 NEI).  |
|                   | Updated emissions for PCS Nitrogen Fertilizer LP (Site ID: 47-157-00146)  |
| WV                | Updated emissions for Steel of West Virginia (Site ID: 54-011-0009)   |
|                   | Made changes to several Site ID names due to changes in ownership   |
|                   | Made corrections to latitude/longitude and stack parameters at a few facilities for stacks with parameters that do not appear to fall into the ranges typically termed "acceptable" for AQ modeling.  |



### 1.1.1.7 Summary of B&F 2002 Inventory

Tables 1.1-4 through 1.1-10 summarize the B&F 2002 base year inventory. All values are in tons. Note that no changes to the Base G 2002 point source inventory were made during the Base G2 and B&F update cycles (in other words, Base G = Base G2 = B&F). Note also that Alabama suggested additional changes to the 2002 inventory resulting from their PM<sub>2.5</sub> modeling for the Birmingham area; however, these changes were identified too late to be incorporated in the VISTAS B&F inventory and ASIP modeling.

For the purposes of Tables 1.1-4 through 1.1-10, EGU emissions include the emissions from all processes with a Source Classification Code (SCC) of either 1-01-xxx-xx (External Combustion Boilers – Electric Generation) or 2-01-xxx-xx (Internal Combustion Engines – Electric Generation). Emissions for all other SCCs are included in the non-EGU column. Note that aggregating emissions into EGU and non-EGU sectors based on the above SCCs causes a minor inconsistency with the EGU emissions reported in EPA’s CAMD database. The EGU emissions summarized in these tables may include emissions from some smaller electric generating units in the VISTAS inventory that are not in CAMD’s 2002 CEM database or the IPM forecasted emissions. The minor inconsistencies result in a less than 2 percent difference between the summary tables below and the data from CAMD’s CEM database.

**Table 1.1-4 Base G / B&F 2002 VISTAS Point Source Inventory for SO<sub>2</sub> (tons/year).**

| State        | All Point Sources | EGUs             | Non-EGUs       |
|--------------|-------------------|------------------|----------------|
| AL           | 544,309           | 447,828          | 96,481         |
| FL           | 518,721           | 453,631          | 65,090         |
| GA           | 568,731           | 514,952          | 53,778         |
| KY           | 518,086           | 484,057          | 34,029         |
| MS           | 103,388           | 67,429           | 35,960         |
| NC           | 522,113           | 477,990          | 44,123         |
| SC           | 259,916           | 206,399          | 53,518         |
| TN           | 413,755           | 334,151          | 79,604         |
| VA           | 305,106           | 241,204          | 63,903         |
| WV           | 570,153           | 516,084          | 54,070         |
| <b>Total</b> | <b>4,324,278</b>  | <b>3,743,725</b> | <b>580,556</b> |

**Note:** EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.



**Table 1.1-5 Base G / B&F 2002 VISTAS Point Source Inventory for NO<sub>x</sub> (tons/year).**

| State        | All Point Sources | EGUs             | Non-EGUs       |
|--------------|-------------------|------------------|----------------|
| <b>AL</b>    | 244,348           | 161,038          | 83,310         |
| <b>FL</b>    | 302,834           | 257,677          | 45,156         |
| <b>GA</b>    | 196,767           | 147,517          | 49,251         |
| <b>KY</b>    | 237,209           | 198,817          | 38,392         |
| <b>MS</b>    | 104,661           | 43,135           | 61,526         |
| <b>NC</b>    | 196,782           | 151,854          | 44,928         |
| <b>SC</b>    | 130,394           | 88,241           | 42,153         |
| <b>TN</b>    | 221,652           | 157,307          | 64,344         |
| <b>VA</b>    | 147,300           | 86,886           | 60,415         |
| <b>WV</b>    | 277,589           | 230,977          | 46,612         |
| <b>Total</b> | <b>2,059,536</b>  | <b>1,523,449</b> | <b>536,087</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.

**Table 1.1-6 Base G / B&F 2002 VISTAS Point Source Inventory for VOC (tons/year).**

| State        | All Point Sources | EGUs          | Non-EGUs       |
|--------------|-------------------|---------------|----------------|
| <b>AL</b>    | 49,332            | 2,295         | 47,037         |
| <b>FL</b>    | 40,995            | 2,524         | 38,471         |
| <b>GA</b>    | 34,952            | 1,244         | 33,709         |
| <b>KY</b>    | 46,321            | 1,487         | 44,834         |
| <b>MS</b>    | 43,852            | 648           | 43,204         |
| <b>NC</b>    | 62,170            | 988           | 61,182         |
| <b>SC</b>    | 38,927            | 470           | 38,458         |
| <b>TN</b>    | 85,254            | 926           | 84,328         |
| <b>VA</b>    | 43,906            | 754           | 43,152         |
| <b>WV</b>    | 15,775            | 1,180         | 14,595         |
| <b>Total</b> | <b>461,484</b>    | <b>12,516</b> | <b>448,970</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.



**Table 1.1-7 Base G / B&F 2002 VISTAS Point Source Inventory for CO (tons/year).**

| State        | All Point Sources | EGUs           | Non-EGUs       |
|--------------|-------------------|----------------|----------------|
| AL           | 185,550           | 11,279         | 174,271        |
| FL           | 139,045           | 57,113         | 81,933         |
| GA           | 140,561           | 9,712          | 130,850        |
| KY           | 122,555           | 12,619         | 109,936        |
| MS           | 59,871            | 5,303          | 54,568         |
| NC           | 64,461            | 13,885         | 50,576         |
| SC           | 63,305            | 6,990          | 56,315         |
| TN           | 122,348           | 7,084          | 115,264        |
| VA           | 70,688            | 6,892          | 63,796         |
| WV           | 100,220           | 10,341         | 89,879         |
| <b>Total</b> | <b>1,068,604</b>  | <b>141,218</b> | <b>927,388</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.

**Table 1.1-8 Base G / B&F 2002 VISTAS Point Source Inventory for PM<sub>10</sub>-PRI (tons/year).**

| State        | All Point Sources | EGUs           | Non-EGUs       |
|--------------|-------------------|----------------|----------------|
| AL           | 32,886            | 7,646          | 25,240         |
| FL           | 57,243            | 21,387         | 35,857         |
| GA           | 32,834            | 11,224         | 21,610         |
| KY           | 21,326            | 4,701          | 16,626         |
| MS           | 21,106            | 1,633          | 19,472         |
| NC           | 36,592            | 22,754         | 13,838         |
| SC           | 35,542            | 21,400         | 14,142         |
| TN           | 49,814            | 14,640         | 35,174         |
| VA           | 17,211            | 3,960          | 13,252         |
| WV           | 22,076            | 4,573          | 17,503         |
| <b>Total</b> | <b>326,630</b>    | <b>113,918</b> | <b>212,714</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.



**Table 1.1-9 Base G / B&F 2002 VISTAS Point Source Inventory for PM<sub>2.5</sub> -PRI (tons/year).**

| State        | All Point Sources | EGUs          | Non-EGUs       |
|--------------|-------------------|---------------|----------------|
| AL           | 23,291            | 4,113         | 19,178         |
| FL           | 46,148            | 15,643        | 30,504         |
| GA           | 22,401            | 4,939         | 17,462         |
| KY           | 14,173            | 2,802         | 11,372         |
| MS           | 11,044            | 1,138         | 9,906          |
| NC           | 26,998            | 16,498        | 10,500         |
| SC           | 27,399            | 17,154        | 10,245         |
| TN           | 39,973            | 12,166        | 27,807         |
| VA           | 12,771            | 2,606         | 10,165         |
| WV           | 15,523            | 2,210         | 13,313         |
| <b>Total</b> | <b>239,721</b>    | <b>79,269</b> | <b>160,452</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.

**Table 1.1-10 Base G / B&F 2002 VISTAS Point Source Inventory for NH<sub>3</sub> (tons/year).**

| State        | All Point Sources | EGUs         | Non-EGUs      |
|--------------|-------------------|--------------|---------------|
| AL           | 2,200             | 317          | 1,883         |
| FL           | 1,657             | 234          | 1,423         |
| GA           | 3,697             | 83           | 3,613         |
| KY           | 1,000             | 326          | 674           |
| MS           | 1,359             | 190          | 1,169         |
| NC           | 1,234             | 54           | 1,180         |
| SC           | 1,553             | 142          | 1,411         |
| TN           | 1,817             | 204          | 1,613         |
| VA           | 3,230             | 127          | 3,104         |
| WV           | 453               | 121          | 332           |
| <b>Total</b> | <b>18,200</b>     | <b>1,798</b> | <b>16,402</b> |

Note: EGU emissions include SCCs 1-01-xxx-xx and 2-01-xxx-xx; non-EGU has all other SCCs.



### **1.1.2      *Development of Typical Year EGU inventory***

VISTAS developed a typical year 2002 emission inventory for EGUs to avoid anomalies in emissions due to variability in meteorology, economic, and outage factors in 2002. The typical year inventory represents the five year (2000-2004) period and was used to determine the regional haze reasonable progress goals. Actual 2002 emissions were used when comparing the CMAQ modeling results to the 2002 measurements in the model performance evaluation. A detailed discussion of how the actual and typical year EGU inventories were used for modeling is contained in the *Technical Support Document for VISTAS Emissions and Air Quality Modeling to Support Regional Haze State Implementation Plans* located on the VISTAS web site (<http://www.vistas-sesarm.org> )

Data from EPA's CAMD were used to develop normalization factors for producing a 2002 typical year inventory for EGUs. We used the ratio of the 2000-2004 average heat input and the 2002 actual heat input to normalize the 2002 actual emissions. MACTEC obtained data from EPA's CAMD for utilities regulated by the Acid Rain program. Annual data for the period 2000 to 2004 were obtained from the CAMD web site ([www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)). The parameters available were the SO<sub>2</sub> and NO<sub>x</sub> emission rates, heat input, and operating hours. We used the actual 2002 heat input and the average heat input for the 5-year period from 2000-2004 as the normalization factor, as follows:

$$\text{Normalization Factor} = \frac{\text{2000-2004 average heat input}}{\text{2002 actual heat input}}$$

If the unit did not operate for all five years, then the 2000-2004 average heat input was calculated for the one or two years in which the unit did operate. For example, if the unit operated only during 2002, then the normalization factor would be 1.0. The annual actual emissions were multiplied by the normalization factor to determine the typical emissions for 2002, as follows:

$$\text{Typical Emissions} = \text{2002 actual emissions} \times \text{Normalization Factor}$$

After applying the normalization factor, some adjustments were needed for special circumstances. For example, a unit may not have operated in 2002 and thus have zero emissions. If the unit had been permanently retired prior to 2002, then we used zero emissions for the typical year. If the unit had not been permanently retired and would normally operate in a typical year, then we used the 2001 (or 2000) heat input and emission rate to calculate the typical year emissions.

The Southern Company provided typical year data for their sources. Hourly emissions data for criteria pollutants were provided. MACTEC aggregated the hourly emissions into annual values. Further documentation of how Southern Company created the typical year inventory for their



units can be found in *Developing Southern Company Emissions and Flue Gas Characteristics for VISTAS Regional Haze Modeling (April 2005, presented at 14<sup>th</sup> International Emission Inventory Conference* <http://www.epa.gov/ttn/chief/conference/ei14/session9/kandasamy.pdf> ). Since Southern Company only supplied filterable particulate emissions, we ran the PM<sub>10</sub>/PM<sub>2.5</sub> augmentation routine to calculate annual emission estimates for PM<sub>10</sub>-PRI and PM<sub>2.5</sub>-PRI. The Southern Company typical year data were used for Southern Company sources in Alabama, Florida, and Mississippi. Georgia EPD elected to use the typical year normalization factor derived from the CAMD data instead of the Southern Company typical year data (as was used in the Base F inventory).

The final step was to replace the 2002 actual emissions with the 2002 typical year data described above. MACTEC provided the raw data and results of the typical year calculations in a spreadsheet for S/L agency review and comment. Any comments made were incorporated into the Base G inventory.

Table 1.1-11 summarizes emissions by State and pollutant for the actual 2002 EGU inventory and the typical year EGU inventory. For the entire VISTAS region, actual 2002 SO<sub>2</sub> emissions were about 1.6 percent higher than the typical year emissions. The differences on a state-be-state basis ranged from actual emissions being 2.3 percent lower in Kentucky to 10.9 percent higher in Mississippi. For the entire VISTAS region, actual 2002 NO<sub>x</sub> emissions were about 1.7 percent lower than the typical year emissions. The differences on a state-be-state basis ranged from actual emissions being 1.6 percent lower in Kentucky to 6.3 percent higher in Mississippi.

**Table 1.1-11 Comparison of SO<sub>2</sub> and NO<sub>x</sub> Emissions (tons/year) for EGUs.**

| State        | SO <sub>2</sub> Emissions (tons/year) |                  |                       | NO <sub>x</sub> Emissions (tons/year) |                  |                       |
|--------------|---------------------------------------|------------------|-----------------------|---------------------------------------|------------------|-----------------------|
|              | Actual 2002                           | Typical 2002     | Percentage Difference | Actual 2002                           | Typical 2002     | Percentage Difference |
| AL           | 447,828                               | 423,736          | 5.4                   | 161,038                               | 154,704          | 3.9                   |
| FL           | 453,631                               | 444,383          | 2.0                   | 257,677                               | 255,678          | 0.8                   |
| GA           | 514,952                               | 517,633          | -0.5                  | 147,517                               | 148,126          | -0.4                  |
| KY           | 484,057                               | 495,153          | -2.3                  | 198,817                               | 201,928          | -1.6                  |
| MS           | 67,429                                | 60,086           | 10.9                  | 43,135                                | 40,433           | 6.3                   |
| NC           | 477,990                               | 478,489          | -0.1                  | 151,854                               | 148,812          | 2.0                   |
| SC           | 206,399                               | 210,272          | -1.9                  | 88,241                                | 88,528           | -0.3                  |
| TN           | 334,151                               | 320,146          | 4.2                   | 157,307                               | 152,137          | 3.3                   |
| VA           | 241,204                               | 233,691          | 3.1                   | 86,886                                | 85,081           | 2.1                   |
| WV           | 516,084                               | 500,381          | 3.0                   | 230,977                               | 222,437          | 3.7                   |
| <b>Total</b> | <b>3,743,725</b>                      | <b>3,683,968</b> | <b>1.6</b>            | <b>1,523,449</b>                      | <b>1,497,864</b> | <b>1.7</b>            |

Note: a negative percentage difference indicates actual emissions are less than the typical year emissions.



## 1.2 Area Sources

This section details the development of the Base G 2002 base year inventory for area sources. There are three major components of the area source sector of the inventory. The first component is the “typical” year fire inventory. Version 3.1 of the VISTAS base year fire inventory provided actual 2002 emissions estimates. Since fire emissions are not easily grown or projected, in order to effectively represent fires in both the base and future year inventories, VISTAS determined that a typical year fire inventory was necessary. Development of the “typical” year fire inventory covered wildfire, prescribed burning, agricultural fires and land clearing fires. The first part of this section of the report discusses the development of the typical year fire inventory. The methodology provided in that section is identical to the documentation provided for Base F since the “typical” year inventory was developed as part of the Base F development effort. The major change in Base G for the fire component of the inventory was the development of projection year inventories that represent alternatives to the “typical” year inventory. These alternative projections incorporated projected changes in the acreage burned for prescribed fires on Federal lands. These projections are an augmentation of the “typical” year inventory.

The second component of the area source inventory was the incorporation of data submitted by the VISTAS States to the United States Environmental Protection Agency (EPA) as part of the CERR. Work on incorporating the CERR data into the revised base year involved: 1) obtaining the data from EPA, 2) evaluating the emissions and pollutants reported in order to avoid double counting and 3) backfilling from the existing VISTAS 2002 base year inventory for missing sources/pollutants. The processes used to perform those operations are described in the second portion of this section. That work was performed as part of the Base F inventory effort. In general no changes to that method were made as part of the Base G inventory updates. The methods used for the Base F inventory development effort using the CERR submittals have been maintained in this document. Where necessary, additional documentation has been added to 1) reflect changes that resulted from VISTAS States review of the Base F inventory and the incorporation of those changes into Base G, 2) changes made to how certain sources were estimated or 3) addition of new sources not found in Base F.

The final component of the area source inventory was related to the development of NH<sub>3</sub> emission estimates for livestock and fertilizers and paved road PM emissions. For the NH<sub>3</sub> emission estimates for livestock and fertilizers we used version 3.6 of the Carnegie Mellon University (CMU) NH<sub>3</sub> model. For the paved road PM emissions, we used the most recent estimates developed by EPA as part of the National Emission Inventory (NEI) development effort. EPA had developed an improved methodology for estimating paved road emissions so those values were substituted directly into the inventory after receiving consensus from all of the VISTAS States to perform the replacement. Details on these methods are provided in the third



portion of this section of the document. That section is virtually identical to that from the Base F inventory document as there were only a couple of changes to the ammonia portion of the inventory and some updates to all fugitive dust categories including paved roads on a global basis between Base F and Base G.

Finally, quality assurance steps for each component of the area source inventory are discussed.

### **1.2.1 Development of a “typical” year fire inventory**

Typical year fire emissions were developed starting from the actual fire acreage data and emission calculated for each VISTAS State. The table below shows the data submitted by each State in the VISTAS region indicating what data was received from each State for the purposes of calculating actual fire emissions.

| <b>Fire Type</b> | <b>AL</b> | <b>FL</b> | <b>GA</b> | <b>KY</b> | <b>MS</b> | <b>NC</b> | <b>SC</b> | <b>TN</b> | <b>VA</b> | <b>WV</b> |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Land Clearing    | ✓         | ✓         | ✓         |           |           |           | ✓         |           |           |           |
| Ag Burning       | ✓         | ✓         | ✓         |           |           |           | ✓         |           |           |           |
| Wildfires        | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| Prescribed       | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |           | ✓         |

In order to effectively characterize fire emissions in the VISTAS region, a typical (as opposed to strictly 2002 year based inventory) was required. Development of a typical year fire inventory provided the capability of using a comparable data set for both the base year and future years. Thus fire emissions would remain the same for air quality and visibility modeling in both the base and any future years. MACTEC originally proposed five different methods for developing the typical fire year to the VISTAS Fire Special Interest Work Group (SIWG) and requested their feedback and preference for developing the final typical year inventory. The method that was selected by SIWG members was to use a method similar to that used to develop an early version of a 2018 projection inventory. For that early 2018 inventory, State level ratios of acres over a longer term record (three or more years) developed for each fire type relative to 2002. The 2002 acreage was then scaled up or down based on these ratios to develop a typical year inventory. For Base F and G, the decision of the VISTAS Fire SIWG was to base the ratio on county level data for States that supplied long term fire-by-fire acreage data rather than State-level ratios. Where States did not supply long term fire-by-fire acreage data, MACTEC reverted to using State-level ratios. With one broad exception (wildfires) this method was implemented for all fires. MACTEC solicited long term fire-by-fire acreage data by fire type from each VISTAS State. A minimum of three or more years of data were used to develop the ratios. Those



data were then used to develop a ratio for each county based on the number of acres burned in each county for each fire type relative to 2002.

Thus if we had long term county prescribed fire data from a State, we developed a county acreage ratio of:

$$\text{Ratio} = \frac{\text{Long term average county level Rx acres}}{\text{2002 actual county level Rx acreage}}$$

This ratio was then multiplied times the actual 2002 acreage to get a typical value (basically the long term average county level acres). Wherever possible this calculation was performed on a fire by fire basis. The acreage calculated using the ratio was then used with the fuel loading and emission factor values that we already had (and had been reviewed by the SIWG) to calculate emissions using the same method used for the 2002 actual values (which were previously documented). The following lists indicate which counties used the State ratios by fire type.

| Land Clearing |                     | Agricultural Fires |                  | Prescribed Burning |                 |
|---------------|---------------------|--------------------|------------------|--------------------|-----------------|
| FIPS          | COUNTY              | FIPS               | COUNTY           | FIPS               | COUNTY          |
| 12086         | Miami-Dade County   | 13063              | Clayton County   | 13059              | Clarke County   |
| 12037         | Franklin County     | 13083              | Dade County      | 13083              | Dade County     |
| 12043         | Glades County       | 13089              | Dekalb County    | 13089              | Dekalb County   |
| 12045         | Gulf County         | 13097              | Douglas County   | 13097              | Douglas County  |
| 12049         | Hardee County       | 13121              | Fulton County    | 13121              | Fulton County   |
| 12057         | Hillsborough County | 13135              | Gwinnett County  | 13123              | Gilmer County   |
| 12073         | Leon County         | 13137              | Habersham County | 13135              | Gwinnett County |
| 12077         | Liberty County      | 13215              | Muscogee County  | 13139              | Hall County     |
| 12081         | Manatee County      | 13227              | Pickens County   | 13215              | Muscogee County |
| 12095         | Orange County       | 13241              | Rabun County     | 13241              | Rabun County    |
| 12097         | Osceola County      | 13247              | Rockdale County  | 13247              | Rockdale County |
| 12103         | Pinellas County     | 13311              | White County     |                    |                 |
| 12115         | Sarasota County     |                    |                  |                    |                 |
| 13015         | Bartow County       |                    |                  |                    |                 |
| 13021         | Bibb County         |                    |                  |                    |                 |
| 13045         | Carroll County      |                    |                  |                    |                 |
| 13047         | Catoosa County      |                    |                  |                    |                 |
| 13057         | Cherokee County     |                    |                  |                    |                 |
| 13059         | Clarke County       |                    |                  |                    |                 |
| 13063         | Clayton County      |                    |                  |                    |                 |
| 13073         | Columbia County     |                    |                  |                    |                 |
| 13077         | Coweta County       |                    |                  |                    |                 |
| 13083         | Dade County         |                    |                  |                    |                 |
| 13089         | Dekalb County       |                    |                  |                    |                 |
| 13097         | Douglas County      |                    |                  |                    |                 |
| 13117         | Forsyth County      |                    |                  |                    |                 |
| 13121         | Fulton County       |                    |                  |                    |                 |
| 13129         | Gordon County       |                    |                  |                    |                 |
| 13135         | Gwinnett County     |                    |                  |                    |                 |
| 13137         | Habersham County    |                    |                  |                    |                 |
| 13143         | Haralson County     |                    |                  |                    |                 |
| 13147         | Hart County         |                    |                  |                    |                 |



| Land Clearing |                 | Agricultural Fires |        | Prescribed Burning |        |
|---------------|-----------------|--------------------|--------|--------------------|--------|
| FIPS          | COUNTY          | FIPS               | COUNTY | FIPS               | COUNTY |
| 13151         | Henry County    |                    |        |                    |        |
| 13169         | Jones County    |                    |        |                    |        |
| 13215         | Muscogee County |                    |        |                    |        |
| 13237         | Putnam County   |                    |        |                    |        |
| 13241         | Rabun County    |                    |        |                    |        |
| 13291         | Union County    |                    |        |                    |        |
| 13311         | White County    |                    |        |                    |        |

There were three exceptions to this method.

#### Exception 1: Use of State Ratios for Wildfires

The first exception was that wildfires estimates were developed using State ratios rather than county ratios. This change was made after initial quality assurance of the draft estimates revealed that some counties were showing unrealistic values created by very short term data records or missing data that created unrealistic ratios. In addition, exceptionally large and small fires were removed from the database since they were felt to be atypical. For example the Blackjack Complex fire in Georgia was removed from the dataset because the number of acres burned was “atypical” in that fire. We also removed all fires less than 0.1 acres from the dataset.

#### Exception 2: Correction for Blackened Acres on Forest Service Lands

Following discussions with the United States Forest Service (Forest Service) (memo from Cindy Huber and Bill Jackson, dated August 13, 2004), it was determined that the acres submitted by the Forest Service for wildfires and prescribed fires represented perimeter acres rather than “blackened” acres. Thus for wildfires and prescribed fires on Forest Service lands, a further correction was implemented to correct the perimeter acre values to blackened acres. The correction was made based on the size of the fire. For prescribed fires over 100 acres in size the acreage was adjusted to be 80 percent of the initial reported value. For prescribed fires of 100 acres or less the acreage values were maintained as reported. For wildfires, all reported acreage values were adjusted to be 66 percent of their initially reported values. These changes were made to all values reported for Forest Service managed lands.

#### Exception 3: Missing/Non-reported data

When we did not receive data from a VISTAS State for a particular fire type, a composite average for the entire VISTAS region was used to determine the typical value for that type fire. For example, if no agricultural burning long term acreage data was reported for a particular State, MACTEC determined an overall VISTAS regional average ratio that was used to multiply



times the 2002 values to produce the “typical” values. This technique was applied to all fire types when data was missing.

In addition, for wildfires and prescribed burning, ratios were developed for “northern” and “southern” tier States within the VISTAS region and those ratios were applied to each State with missing data depending upon whether they were considered a “northern” or “southern” tier State. Development of “southern” and “northern” tier data was an attempt to account for a change from a predominantly pine/evergreen ecosystem (southern) to a pine/deciduous ecosystem (northern). States classified as “southern” included: AL, FL, GA, MS, and SC. States classified as “northern” included: KY, NC, TN, VA, and WV.

Finally for land clearing and agricultural fires, there are no NH<sub>3</sub> and SO<sub>2</sub> emissions. This is due to the lack of emission factors for these pollutants for these fire types.

Table 1.2-1 shows fire emissions from the original base year emission inventory (VISTAS 3.1), the actual 2002 emissions and the typical year emissions for the entire VISTAS region. The actual 2002 and typical fire emissions represent the Base F and Base G 2002 emissions. The typical emissions also represent the 2009 and 2018 emissions for all fire types with the exception of prescribed burning. Revisions made to the typical year prescribed fire emissions for 2009 and 2018 are detailed in the projection section. Also, State level Base G emissions from fires for all years can be found in the tables in Appendix A. Values for fires in those tables are “typical” year values.

Figures 1.2-1 through 1.2-4 show the State by State changes in emissions between the original 2002 base year fire inventories, the actual 2002 and the typical year inventories for carbon monoxide (CO) by fire type. Due to the relative magnitude of CO emissions compared to other criteria and PM pollutants from fires; this pollutant is normally chosen to represent the distribution of fires in the example plots.



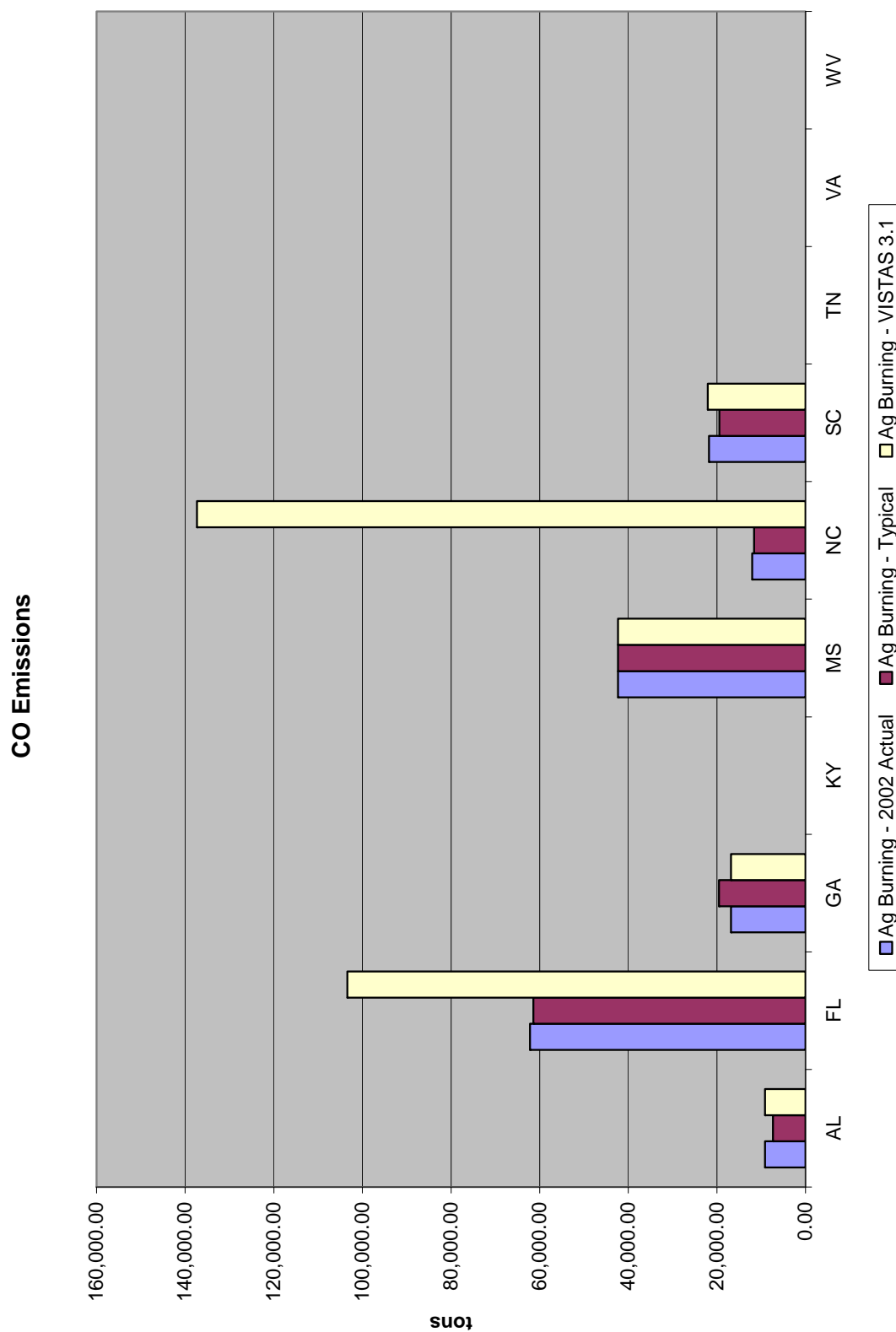
**Table 1.2-1 Emissions from Fires in the VISTAS Region – Comparison between Original Base Year 2002 (VISTAS 3.1), 2002 Actual and Typical Year Base G Emissions.**

|                  | CO        | NH <sub>3</sub> | NO <sub>x</sub> | PM <sub>10</sub> -FIL | PM <sub>10</sub> -PRI | PM <sub>2.5</sub> -FIL | PM <sub>2.5</sub> -PRI | SO <sub>2</sub> | VOC    |
|------------------|-----------|-----------------|-----------------|-----------------------|-----------------------|------------------------|------------------------|-----------------|--------|
| <b>Total LC</b>  |           |                 |                 |                       |                       |                        |                        |                 |        |
| Actual (Base G)  | 492,409   | 0               | 14,568          | 62,146                | 62,146                | 62,146                 | 62,146                 | 0               | 33,799 |
| Typical (Base G) | 675,838   | 0               | 19,995          | 80,598                | 80,598                | 80,598                 | 80,598                 | 0               | 46,389 |
| VISTAS 3.1       | 484,240   | 0               | 14,327          | 61,325                | 61,325                | 61,325                 | 61,325                 | 0               | 33,238 |
| <b>Total Ag</b>  |           |                 |                 |                       |                       |                        |                        |                 |        |
| Actual (Base G)  | 164,273   | 0               | 903             | 30,958                | 30,958                | 30,385                 | 30,385                 | 0               | 21,946 |
| Typical (Base G) | 161,667   | 0               | 903             | 30,465                | 30,465                | 29,892                 | 29,892                 | 0               | 21,595 |
| VISTAS 3.1       | 331,073   | 0               | 903             | 41,480                | 41,480                | 40,192                 | 40,192                 | 0               | 41,875 |
| <b>Total WF</b>  |           |                 |                 |                       |                       |                        |                        |                 |        |
| Actual (Base G)  | 298,835   | 1,333           | 6,628           | 28,923                | 28,923                | 24,926                 | 24,926                 | 1,611           | 16,804 |
| Typical (Base G) | 547,174   | 2,451           | 11,955          | 53,070                | 53,070                | 45,635                 | 45,635                 | 3,072           | 28,491 |
| VISTAS 3.1       | 275,766   | 1,230           | 6,133           | 26,680                | 26,680                | 23,002                 | 23,002                 | 1,476           | 15,718 |
| <b>Total RX</b>  |           |                 |                 |                       |                       |                        |                        |                 |        |
| Actual (Base G)  | 1,678,216 | 7,616           | 36,561          | 168,938               | 168,938               | 145,175                | 145,175                | 9,839           | 78,988 |
| Typical (Base G) | 1,635,776 | 7,425           | 35,650          | 164,811               | 164,811               | 141,636                | 141,636                | 9,590           | 76,990 |
| VISTAS 3.1       | 1,724,940 | 7,822           | 37,556          | 173,590               | 173,590               | 149,181                | 149,181                | 10,101          | 81,188 |

**Key:** LC = Land Clearing; Ag = Agricultural burning; WF = wildfires; RX = prescribed burning. Actual and Typical represent Base F and Base G (e.g., no change in methodology for Base F and Base G) for 2002.

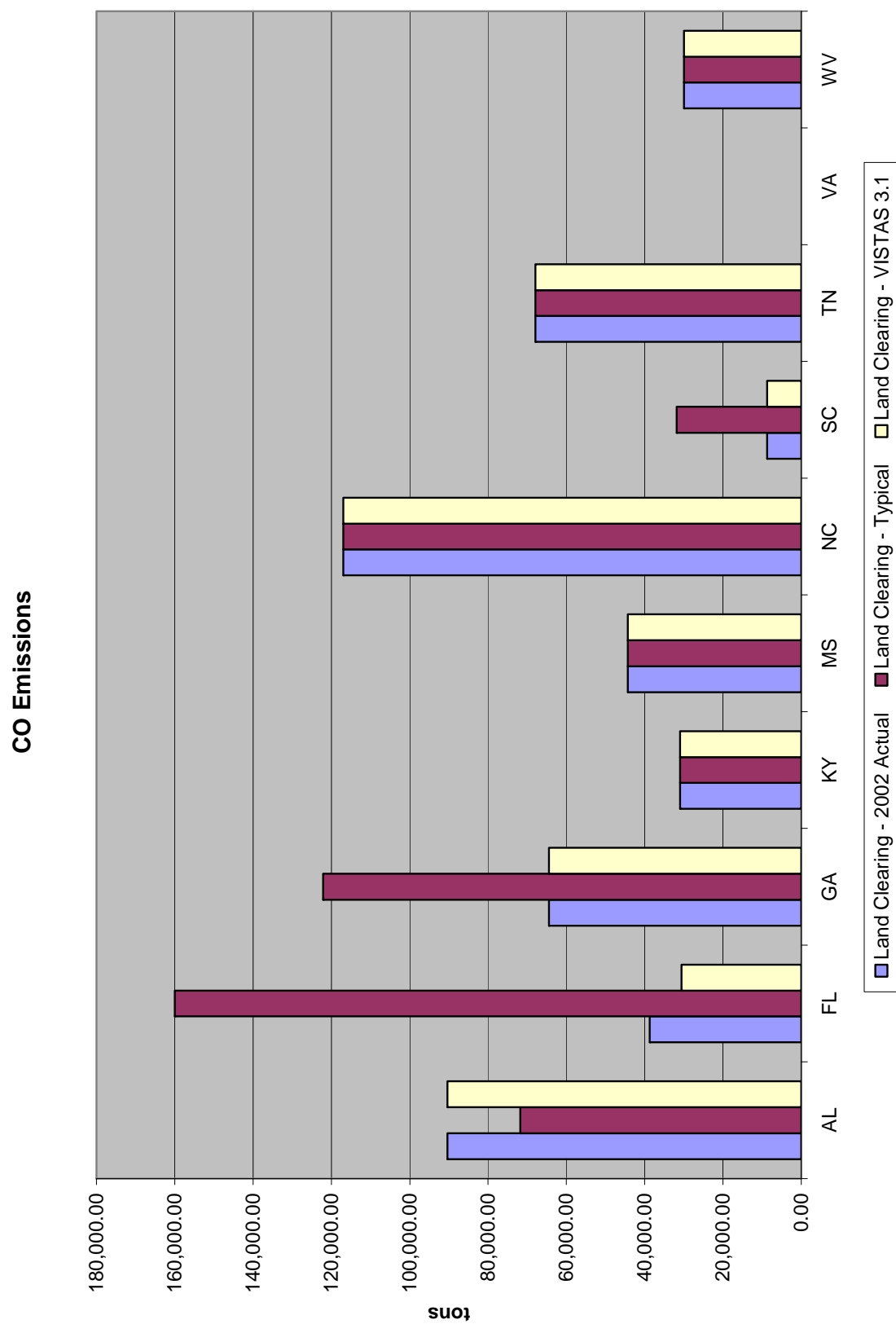


**Figure 1.2-1 CO Emissions from Agricultural Burning for the Original Base Year, 2002 Actual Base G, and 2002 Typical Base G Inventories.**



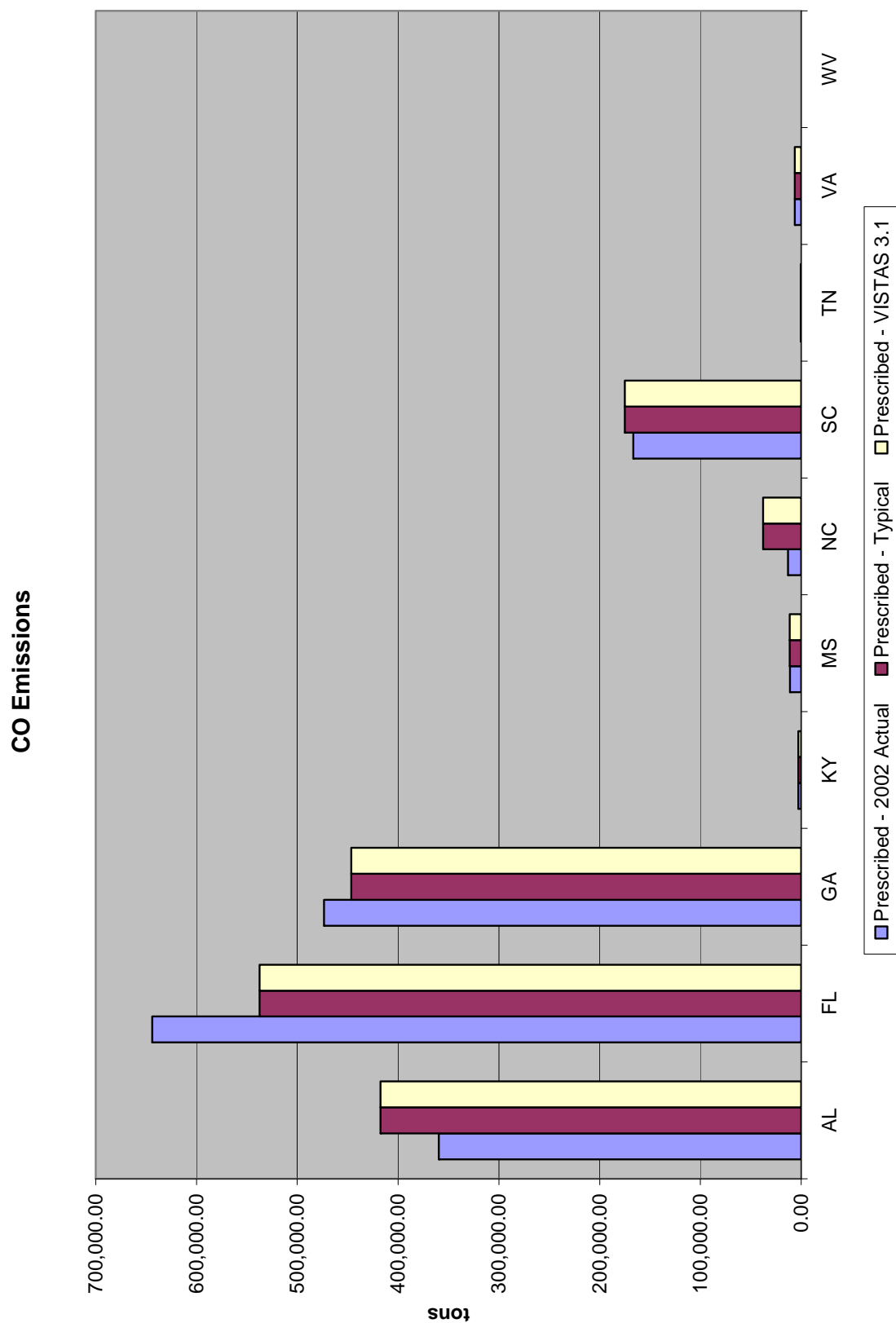


**Figure 1.2-2 CO Emissions from Land Clearing Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.**



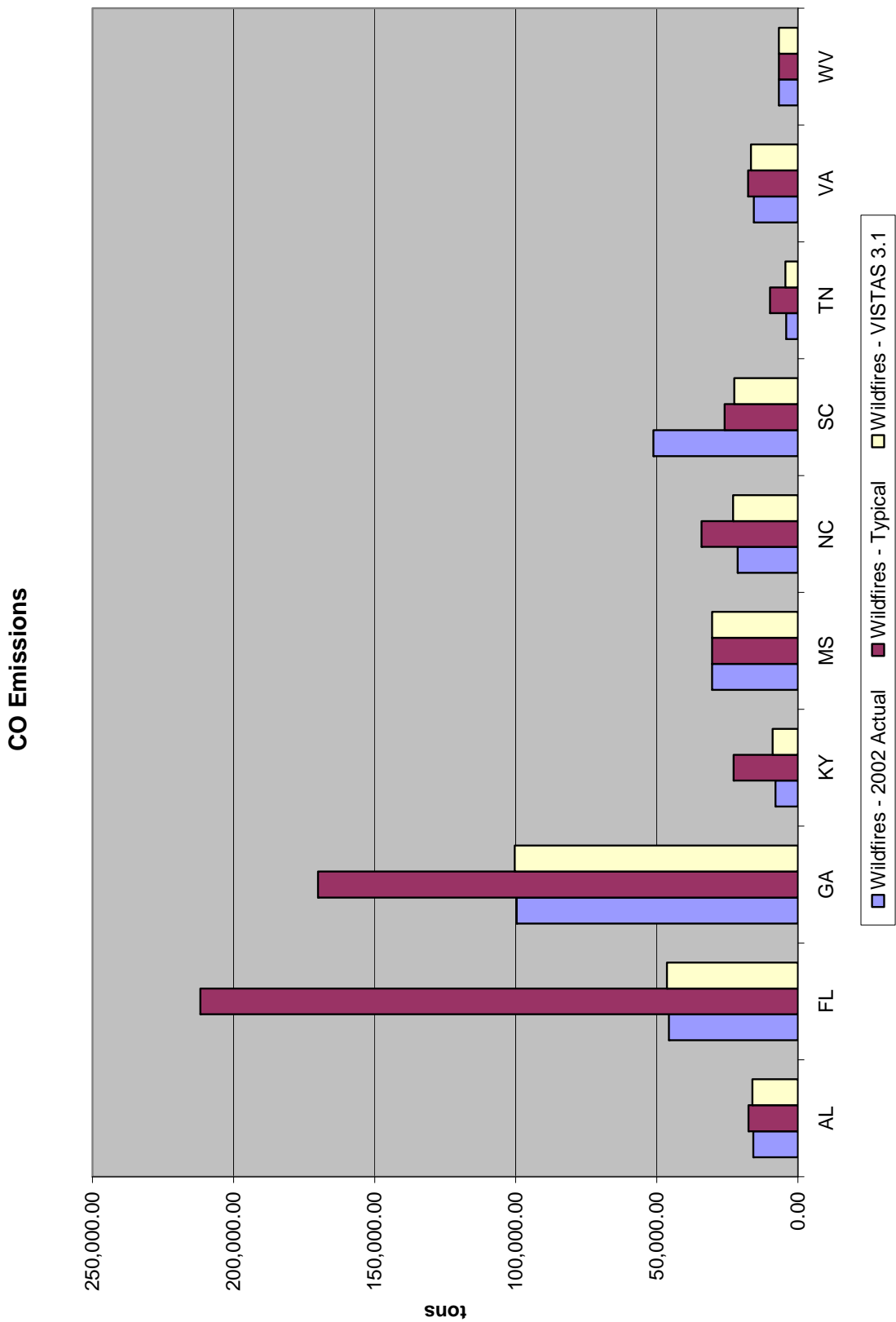


**Figure 1.2-3 CO Emissions from Prescribed Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.**





**Figure 1.2-4 CO Emissions from Wildfire Burning for the Original Base Year, 2002 Actual Base G and 2002 Typical Base G Inventories.**





### **1.2.2      *Development of non-fire inventory***

The second task in preparing the area source component of the Base F and Base G 2002 base year inventory was the incorporation of data submitted by the VISTAS States to the EPA as part of the CERR. With few exceptions, Base F and Base G inventories for this component of the inventory are identical. Modifications to the Base F methodology (described below) only resulted from modifications from the VISTAS States during review of the Base F inventory. The changes made to the inventory based on these reviews are described in the last portion of this section of the report. The information presented below describes the method used to incorporate CERR data as part of Base F.

Work on incorporating the CERR data into the 2002 Base F inventory involved: 1) obtaining the data from EPA, 2) evaluating the emissions and pollutants reported in order to avoid double counting and 3) backfilling from the earlier version of the VISTAS 2002 base year inventory for missing sources/pollutants. The processes used to perform those operations are described below. This work did not include any of the fire emission estimates described above. In addition it did not include emission estimates for ammonia from agricultural and fertilizer sources. Finally it did not include PM emissions from paved roads. Each of those categories was estimated separately.

Data on the CERR submittals was obtained from EPA's Draft NEI download file transfer protocol (FTP) site where the data are stored after they've been processed for review. The data submitted in National Emission Inventory Format (NIF) was downloaded from that site. Once all of the files were obtained, MACTEC ran the files through the EPA NIF Format and Content checking tool to ensure that the files were submitted in standard NIF format and that there were no issues with those files. In a couple of cases small errors were found. For example, in one case a county FIPs code that was no longer in use was found. MACTEC contacted each VISTAS State area source contact person to resolve the issues with the files and corrections were made. Once all corrections to the native files were completed, MACTEC continued with the incorporation of the data into the VISTAS area source files.

Our general assumption was that unless we determined otherwise, the CERR submittals represented full and complete inventories. Where a State submitted a complete inventory, our plan was to simply delete the previous 2002 base year data and replace it with the CERR submittal. Prior to this replacement however, we stripped out the following emissions:

1. All wildfire, prescribed burning, land clearing and agricultural burning emissions submitted to EPA by the States as part of the CERR process were removed since they were to be replaced with emissions estimated using methods described earlier.
2. All fertilizer and agricultural ammonia emission records submitted to EPA by the States as part of the CERR process were removed. These were replaced with the estimates developed using the CMU Ammonia model.



3. All emissions from paved roads submitted to EPA by the States as part of the CERR process were removed. These emissions were replaced with updated emissions developed by U.S. EPA as part of their 2002 NEI development effort.

This approach was used for most State and Local emission submittals to prepare the Base F inventory. There were a few cases where alternative data were used to prepare the Base F inventory. In general, these alternatives involved submittal of alternative files to the CERR data by S/L agencies. Table 1.2-2 below summarizes the data used to prepare the Base F inventory. In general the data were derived from one of the following sources:

1. CERR submittal obtained from EPA FTP site as directed by VISTAS States;
2. State submitted file (either revised from CERR submittal or separate format);
3. VISTAS original 2002 base year (VISTAS version 3.1 base year file); or
4. EPA's preliminary 2002 NEI.

**Table 1.2-2 Summary of State Data Submittals for the 2002 VISTAS Area Source Base F Inventory**

| State / Local Program  | Area Source Emissions Data Source |
|--|-----------------------------------|
| AL   | B                                 |
| FL   | B                                 |
| GA   | C                                 |
| KY   | A                                 |
| MS   | B                                 |
| NC   | C                                 |
| SC   | B                                 |
| TN   | B                                 |
| VA   | B                                 |
| WV   | A/C                               |
| Davidson County, TN  | B                                 |
| Hamilton County, TN  | C                                 |
| Memphis/Shelby County, TN  | A                                 |
| Knox County, TN  | B                                 |
| Jefferson County, AL   | * so B from State                 |
| Jefferson County, KY   | B                                 |
| Buncombe County, NC  | * so C from State                 |
| Forsyth County, NC   | * so C from State                 |
| Mecklenburg County, NC   | * so C from State                 |
| A = VISTAS 2002 (version 3.1)<br>B = CERR Submittal from EPA's ftp site<br>C = Other (CERR or other submittal sent directly from State to MACTEC)<br>* = No response |                                   |



In order to track the sources of data in the final Base F and Base G NIF files, a field was added to the NIF format files developed for VISTAS to track each data source. A field named Data\_Source was added to the EM table. A series of codes were added to this field to mark the source of each emissions value in the Base F and Base G inventories. Values in this field are detailed in Table 1.2-3.

**Table 1.2-3 Data Source Codes and Data Sources for VISTAS 2002 Base F Area Source Emissions Inventory.**

| Data Source Codes                    | Data Source   |
|--------------------------------------|---|
| <b>Base F Codes</b>                  |   |
| CMU Model                            | CMU Ammonia model v 3.6   |
| E-02-X or E-99-F or L-02-X or S-02-X | EPA CERR submittal (from FTP site)                              |
| EPA Paved                            | EPA Paved Road emissions estimates                              |
| EPAPRE02NEI                          | EPA Preliminary 2002 NEI  |
| STATEFILE                            | State submitted file  |
| VISTBASR31                           | VISTAS 2002 Base Year version 3.1                               |
| VISTRATIO                            | Developed from VISTAS Ratios (used only for missing pollutants) |
| <b>Additional Base G Codes</b>       |   |
| ALBASEGFILE                          | Base G update file provided by AL                               |
| NCBASEGFILE                          | Base G update file provided by NC                               |
| OTAQRPT                              | Portable Fuel Container Emissions from OTAQ Report              |
| STELLA                               | Revised data provided by VISTAS EI Advisor Greg Stella          |
| VABASEGFILE                          | Base G update file provided by VA                               |
| VASStateFile                         | Revisions/additions to Base G update file provided by VA        |

Most States submitted complete inventories for Base F. Virginia's inventory required a two stage update. Virginia's CERR submittal only contained ozone precursor pollutants (including CO). For Virginia, MACTEC's original plan was to maintain the previous 2002 VISTAS base year emissions for non-ozone pollutants and then do a simple replacement for ozone pollutants. However during the QA phase of the work, MACTEC discovered that there were categories that had ozone precursor or CO emissions in the submittal that weren't in the original 2002 VISTAS base year inventory that should have PM or SO<sub>2</sub> emissions. For those records, MACTEC used an



emissions ratio to build records for emissions of these pollutants. Data for Virginia PM and SO<sub>2</sub> emissions were generated by developing SCC level ratios to NO<sub>x</sub> from the VISTAS 2002 base year inventory (version 3.1) or from emission factors and then calculating the emissions based on that ratio.

### **1.2.3      2002 Base G inventory updates**

After the Base F inventory was submitted and used for modeling, VISTAS States were provided an opportunity for further review and comment on the Base F inventory. As a result of this review and comment period, several VISTAS States provided revisions to the Base F inventory.

In addition to and as an outgrowth of some of the comments provided by the States during the review process, some of the changes made to the inventory were made globally across the entire VISTAS region. This section discusses the specific State changes followed by the global changes made to the area source component of the inventory for all VISTAS States.

#### **1.2.3.1      Changes resulting from State review and comment**

##### **Alabama**

Alabama suggested several changes and had questions concerning a few categories in the Base F inventory. The changes/questions were:

1. For Source Classification Code (SCC) 2102005000 (Industrial Boilers: Residual Oil) and SCC 2103007000 (Institutional/Commercial Heating: Liquefied Petroleum Gas) the Alabama noted that the Base F VISTAS inventory had values for NO<sub>x</sub>, VOC and CO for the State, but no values for SO<sub>2</sub>, PM<sub>10</sub> or PM<sub>2.5</sub>.

MACTEC evaluated this information and found that there were actually emissions for two counties in AL for that SCC that had either SO<sub>2</sub> and/or PM emissions. The data used to develop the 2002 Base F inventory for AL came from the preliminary 2002 CERR submittals (see above) which should have included SO<sub>2</sub> and PM but did not except for two counties. According to MACTEC's protocol for use of these files, the files received from EPA were to be used "as is" unless the States provided comments during the Base F comment period to correct the CERR submittal. No comments were received from AL on the CERR submittal used for Base F. For 2002 Base G, AL provided an updated database file for these SCCs for all counties in the State that provided revised values for emissions and included SO<sub>2</sub> and PM. The revised file was used to update the Base F data for Base G.

2. AL noted that the Base F inventory included SCC 2401002000 (Solvent Utilization, Surface Coating, Architectural Coatings - Solvent-based, Total: All Solvent Types) and 2401003000 (Solvent Utilization, Surface Coating,



Architectural Coatings - Water-based, Total: All Solvent Types) as well as SCC 2401001000 (Solvent Utilization, Surface Coating, Architectural Coatings, Total: All Solvent Types). This resulted in double counting of the emissions for this category. AL suggested removal of the breakdown SCCs and use of the total SCC.

MACTEC deleted records for the breakdown SCCs and retained the total all solvents SCC emissions.

3. AL found the SCCs listed below missing from the Base F VISTAS inventory.

| SCC          | VOC Emissions | SCC Description  |
|--------------|---------------|--|
| 2401025000   | 1139.91       | Surface Coatings: Metal Furniture, all coating types   |
| 2401030000   | 425.27        | Surface Coatings: Paper, all coating types   |
| 2401065000   | 344.08        | Surface Coatings: Electronic and Other Electrical, all coating types                                       |
| 2430000000   | 504.29        | Solvent Utilization, Rubber/Plastics, All Processes, Total: All Solvent Types                              |
| 2440020000   | 3043.78       | Solvent Utilization, Miscellaneous Industrial, Adhesive (Industrial) Application, Total: All Solvent Types |
| Total for AL | 5457.32       |  |

MACTEC found that the emissions for these SCCs were included in the Base F inventory, but with slightly different total emissions. AL provided an updated county-level emissions file for use in updating the Base G inventory. That file was used to update the NIF records for AL for those SCCs.

4. AL noted that emissions in the Base F inventory were found for SCC 2465000000 and SCCs 2465100000, 2465200000, 2465400000, 2465600000, and 2465800000. These last five SCCs represent a subset of the emissions in the 2465000000 SCC resulting in potential double counting of emissions.

MACTEC deleted all emissions associated with the Total SCC 2465000000 and retained the subset SCCs for the Base G inventory.

### **Florida**

Florida provided comments indicating that they felt that emissions from the following sources and counties were too high, especially for CO and PM and were likely zero:



- motor vehicle fire - Palm Beach County
- woodstoves - Miami Dade, Hillsborough, Orange, Polk, Ft Myers, Pasco and Sarasota Counties
- fireplaces - Miami Dade and Hillsborough Counties

Emissions from these sources in the counties specified were set to zero by MACTEC for the Base G inventory.

### **North Carolina**

North Carolina provided corrected emission files for 2002 Base F. A text file with emission values was provided and used to update the Base F emissions to Base G. The updated emissions were applied directly to the Base F NIF file. The file provided was similar to the “EM” NIF table. An update query was used to update the data supplied in the text file to the Access database NIF file. All changes were implemented.

### **South Carolina**

South Carolina had two issues concerning the Base F inventory. These issues related to 1) additional SCCs that were in BASE F 2009 and 2018, but not in 2002 Base F and 2) SCCs that were in the U.S. EPA 2002 NEI inventory, but not in the VISTAS 2002, 2009, or 2018 Base F inventory.

MACTEC investigated the additional SCCs found in 2009 and 2018 Base F and found that the SCCs actually were not missing in the 2002 Base F inventory but only had emissions for PM. Thus the emissions were maintained as they were provided in Base F.

With respect to the SCCs that were found in the U.S. EPA 2002 NEI, MACTEC investigated and found that they were not included in the Base F inventory because they were not included in the 2002 CERR submittal used to produce the Base F updates. The SCCs were apparently added by EPA later in the NEI development process. In addition, MACTEC also evaluated whether or not the SCCs were found in other VISTAS States Base F inventories. MACTEC found that some States included them and some did not, there was no consistency between the States. MACTEC also found that typically emissions for these SCCs were low in emissions, generally with emissions of only a few tons to tens of tons per year. The decision was made with South Carolina concurrence not to add these SCCs to the Base G inventory. These SCCs were: 210205000, 2102011000, 2103007000, 2103011000, 2104007000, 2104011000, 2302002100, 2302002200, 2302003100, 2302003200, 2610000500, 2810001000, and 281001500.



## **Virginia**

Virginia provided an updated 2002 base year emissions file. The data in that file were used to update the Base F inventory emission values to those for Base G. In addition, Virginia provided information on several source categories that required controls for future year projections since the sources were located in counties/cities in northern Virginia and were subject to future year Ozone Transport Commission (OTC) regulations. MACTEC added in the base year control levels to the Base G inventory file for these categories so that they could be estimated correctly in future years. The controls added were for mobile equipment repair/refinishing sources, architectural and industrial maintenance coating sources, consumer products sources, and solvent metal cleaning sources. Minor errors were found in some entries for the initial file provided and VA provided a revised file with corrections and minor additions.

## **Jefferson County, KY**

In December 2007, KY Division of Air Quality staff identified that Jefferson County, KY was showing zero area source SO<sub>2</sub> emissions. MACTEC was asked to investigate why there were zero emissions. MACTEC's investigation showed that some of the surrounding counties had area source SO<sub>2</sub> emissions, but that Jefferson County's were indeed zero. MACTEC determined that there were emissions in pre-Base F inventories which would have originated from the 1999 NEI grown to 2002. However under our Base F update procedure, we obtained a CERR submittal from Jefferson County. That file contained only emissions for Jefferson County including a limited number of non-ozone pollutant records. Thus under our procedure for processing CERR submittals (see above), the file was considered to be full and complete for purposes of inclusion in the Base F inventory and was processed as if it contained more than just ozone pollutant records (i.e., supplemental pollutant records were not required). The file provided, however did not have any SO<sub>2</sub> records. The lack of area source SO<sub>2</sub> emissions was not discovered during the normal State/local review process or during MACTEC's QA process performed on the initial version of the Base F inventory and was thus carried forward into the Base G2 (and thus the Best and Final) inventory and modeling effort where it remained undiscovered until December 2007.

After discovery of the lack of SO<sub>2</sub> records, MACTEC recovered the SO<sub>2</sub> (and some PM) records from the pre-Base F inventories and prepared updated records for 2002, 2009 and 2018. However, because of the timing of the release of these data (December 2007) and the fact that VISTAS could not rerun 2002 and 2009 in time for the final modeling needs with these data, these changes were not included in the final files (Base G2/Best and Final). Therefore, the summaries provided in this document do not reflect those emissions, nor do the Best and Final inventory files include them.



#### **1.2.4      *Ammonia and paved road emissions***

The final component of the Base F inventory development was estimation of NH<sub>3</sub> emission estimates for livestock and fertilizers and paved road PM emissions. For the NH<sub>3</sub> emission estimates for livestock and fertilizers we used version 3.6 of the CMU NH<sub>3</sub> model (<http://www.cmu.edu/ammonia/>). Results from this model were used for all VISTAS States. The CMU model version 3.6 was used in large part because it had been just recently been updated to include the latest (2002) Census of Agriculture animal population statistics. Prior to inclusion of the CMU model estimates, MACTEC removed any ammonia records for agricultural livestock or fertilizer emissions from the VISTAS 2002 initial base year inventory. MACTEC also generated emissions from human perspiration and from wildlife using the CMU model and added those emissions for each State.

For the Base G ammonia inventory, MACTEC removed all wildlife and human perspiration emissions. VISTAS decided to remove these emissions from the inventory. Human perspiration was dropped due to a discrepancy in the units used for the emission factor that was not resolved prior to preparing the estimates and wildlife was dropped because VISTAS felt the activity data was too uncertain. Thus all emissions from these two categories were deleted in the Base G 2002 inventory.

For the paved road PM Base F emissions, we used the most recent estimates developed by EPA as part of the NEI development effort (Roy Huntley, U.S. EPA, email communication, 8/30/2004). EPA had developed an improved methodology for estimating paved road emissions for 2002 and had used that method to calculate emissions for that source category. MACTEC obtained those emissions from EPA and those values were substituted directly into the inventory after receiving consensus from all of the VISTAS States to perform the replacement. These files were obtained in March of 2005 in NIF format from the EPA FTP site.

For the Base G emissions, modifications were made to the emissions estimates based on changes suggested by work of the Western Regional Air Partnership and U.S. EPA. Details of these changes are provided below in the section on global changes made as part of the Base G inventory updates.

#### **1.2.5      *Global Changes Made for Base G***

There were three global changes made between the Base F and the Base G inventory (beyond the removal of wildlife and human perspiration NH<sub>3</sub> emissions). These changes were:

1. Removal of Stage II emissions from the area source inventory and inclusion in the mobile sector of the inventory,
2. Adjustment of fugitive dust PM<sub>2.5</sub> emissions, and



### 3. Addition of emissions from portable fuel containers.

As part of the Base F review process, several VISTAS States had expressed surprise that the Stage II refueling emission estimates were in the area source component of the inventory. This decision had been made with SIWG agreement early on in the inventory development process because 1) some States had included it in their CERR submittals and 2) because the non-road and on-road mobile estimates had differing activity factor units and could not be easily combined. However for Base G, the VISTAS States all agreed, especially in light of the different ways in which the emissions were reported in the CERR, to remove the Stage II refueling emissions from the area source inventory and include them in the non-road and on-road sectors. Thus all records related to Stage II refueling were removed from the area source component of the Base G inventory.

PM<sub>2.5</sub> emissions from several fugitive dust sources were also updated for Base G. The Western Regional Air Partnership (WRAP) and U.S. EPA had been investigating overestimation of the PM<sub>2.5</sub> / PM<sub>10</sub> ratio in several fugitive dust categories and U.S. EPA was in the process of making revisions to AP-42 for several categories during preparation of the Base G inventory. Based on data received from U.S. EPA, VISTAS decided to revise the PM<sub>2.5</sub> emissions from construction, paved roads and unpaved road sources. PM<sub>2.5</sub> emissions in Base F were multiplied by 0.67, 0.6, and 0.67 for construction, paved roads and unpaved roads respectively to produce the values found in Base G. No changes were made to PM<sub>10</sub>, only to PM<sub>2.5</sub>.

Finally, as part of Virginia's comments on the Base F inventory, emissions from portable fuel containers were mentioned as being absent from the inventory. MACTEC was tasked with developing a methodology that could be used to add these emissions to the Base G area source inventory. In investigating options for a method of estimating emissions, MACTEC found that the U.S. EPA had prepared a national inventory of emissions by State for portable fuel containers. Data on emissions from this source prepared by U.S. EPA were presented in, "Estimating Emissions Associated with Portable Fuel Containers (PFCs), Draft Report, Office of Transportation and Air Quality, United States Environmental Protection Agency, Report # EPA420-D-06-003, February 2006".

State-level emission estimates for 2005 derived from Appendix Table B-2 of the PFCs report were used as the starting point for developing 2002 county-level emissions estimates. State emissions were derived from that table by using all of the emission estimates in that table with the exception of values for vapor displacement and spillage from refueling operations. Those components of the State emissions were left out of the State-level emissions to avoid double counting refueling emissions in the non-road sector. For the purposes of 2002 emission estimates for Base G, the 2005 values were assumed equal to 2002 values.



The 2005 State-level estimates minus the refueling component from Appendix Table B-2 of the report were summed for each State and then allocated to the county-level. The county-level allocation was based on the fuel usage information obtained from the NONROAD 2005 model runs conducted as part of the Base G inventory development effort (see the 2002 base year Base G non-road section below). MACTEC used the spillage file from the NONROAD model (normally located in the DATA\EMSFAC directory in a standard installation of NONROAD) to determine the SCCs that used containers for refueling. The spillage file contains information by SCC and horsepower indicating whether or not the refueling occurs using a container or a pump. All SCC and horsepower classes using containers were extracted from the file and cross-referenced with the fuel usage by county for those SCC/horsepower combinations from the appropriate year model runs (2002, 2009 or 2018). Then the fuel usages by county from the NONROAD 2005 runs prepared for VISTAS were summed for those SCCs by county. The county level fuel use was then divided by the State total fuel use for the same SCCs to determine the fraction of total State fuel usage and that fraction was used to allocate the State-level emissions to the county.

### **1.2.6      *Quality Assurance steps***

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, and to ensure that a full and complete inventory was developed for VISTAS. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the area source component of the 2002 Base F inventory:

1. All CERR and NIF format State supplied data submittals were run through EPA's Format and Content checking software.
2. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources.
3. Tier comparisons (by pollutant) were developed between the revised 2002 base year inventory and the previous (version 3.1) base year inventory.
4. Fields were either added or used within each NIF data table to track the sources of data for each emission record.
5. Data product summaries were provided to both the VISTAS Emission Inventory Technical Advisor and to Area Source and Fires SIWG representatives for review and comment. Changes based on these comments were implemented in the files.
6. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For



example, a major change would result in a version going from 1.0 to 2.0. A minor change would cause a version number to go from 1.0 to 1.1. Minor changes resulting from largely editorial changes would result in a change from 1.00 to 1.01.

In addition, for the fires inventory, data related to fuel loading and fuel consumption was reviewed and approved by the VISTAS Fire SIWG to ensure that values used for each type of fire and each individual fire were appropriate. Members of the VISTAS Fire SIWG included representatives from most State Divisions of Forestry (or equivalent) as well as U.S. Forest Service and National Park Service personnel.

For Base G, similar QA steps to those outlined above for Base F were undertaken. In addition, all final NIF files were checked using the EPA Format and Content checking software and summary information by State and pollutant were prepared comparing the Base F and Base G inventories.

### **1.3 Mobile Sources**

This section describes the revisions made to the initial 2002 VISTAS Base Year emission inventory on-road mobile source input files. For this work actual emission estimates were not made, rather data files consistent with Mobile Emissions Estimation Model Version 6 (MOBILE6) were developed and provided to the VISTAS modeling contractor. These input data files were then run during the VISTAS modeling to generate on-road mobile source emissions using episodic and meteorological specific conditions configured in the sparse matrix operator Kernel Emissions modeling system (SMOKE) emissions processor.

During initial discussions with the VISTAS Mobile Source SIWG, some States indicated a desire to use CERR mobile source emissions data in place of the VISTAS 2002 inventories generated by E.H. Pechan and Associates, Inc. (the initial VISTAS 2002 Base Year inventory files).

However, the CERR emissions data by itself were not sufficient for an inventory process that includes both base and future year inventories. MACTEC needed to be able to replicate the CERR data rather than simply obtain CERR emissions estimates. The reason for this is that only input files were being prepared to provide revised 2002 estimates during the VISTAS modeling process, rather than the actual emission estimates and that the 2002 input data files would be used as a starting point for the projected emission estimates. This meant that the appropriate vehicle miles traveled (VMT), MOBILE6, and/or NONROAD model input data needed to be provided. If these data were provided with the CERR emissions estimates we used it as the starting point for revision of the 2002 Base Year inventory. However MACTEC did not have access to the on-road mobile CERR submissions from EPA, so re-submittal of these data directly to MACTEC was requested in order to begin compiling the appropriate input file data.



In those cases where States did not provide CERR on-road mobile source input data files, our default approach was to maintain the data input files and VMT estimates for the initial 2002 Base Year inventory prepared by Pechan.

### ***1.3.1 Development of on-road mobile source input files and VMT estimates***

Development of the 2002 on-road input files and VMT was a multi-step process depending upon what the State mobile source contacts instructed us to use as their data. Information provided below provides incremental revisions made to on-road mobile source inventories or inputs in series from one inventory version to the next. In general the process involved one of three steps from the original 2002 on-road mobile source data.

#### **Base F Revisions**

1. The first step was to evaluate the initial 2002 base year files and make any non-substantive changes (i.e., changes only to confirm that the files posted for 2002 by Pechan were executable and that all the necessary external files needed to run MOBILE6 were present). This approach was taken for AL, FL, GA, MS, SC, and WV. For these States the determination was made that the previous files would be okay to use as originally prepared. For SC, the VMT file was updated, but that did not affect the MOBILE6 input files.
2. For other States, modification to the input files was required. The information below indicates what changes were made for other States in the VISTAS region.

KY – For Kentucky, the Inspection and Maintenance (I/M) records in the input files for Jefferson County were updated in order to better reflect the actual I/M program in the Louisville metropolitan area.

NC - Substantial revisions were implemented to these input files based on input from the State. The modifications necessary to reflect the desires of the State led to complete replacement of the previous input files. Among the changes made were:

- The regrouping of counties (including the movement of some counties from one county group to another and the creation of new input files for previously grouped counties). There were originally 32 input files; after the changes there were 49. The pointer file was corrected to reflect these changes.
- Travel speeds were updated in over 3000 scenarios.
- All I/M records were updated.
- All registration distributions were updated.



- I/M VMT fractions were updated (which only affected the pointer file).
  - VMT estimates were updated (which has no direct effect on the MOBILE6 input files but does ultimately affect emissions).
3. VA and TN – For these States, new input files were provided due to substantive changes that the State wanted to make relative to the 2002 initial base year input files. In addition, revised VMT data were developed for each State.

### **Base G Revisions**

For the production of the VISTAS 2002 Base G inventory, VISTAS states reviewed the Base F inputs, and provided corrections, updates and supplemental data.

For all states modeled, the Base G updates include:

Adding Stage II refueling emissions calculations to the SMOKE processing.

Revised the HDD compliance for all states. (REBUILD EFFECTS = .1)

In addition to the global changes, individual VISTAS states made the following updates:

KY – updated VMT and M6 input values for selected counties.

NC – revised VMT and registration distributions.

TN - revised VMT and vehicle registration distributions for selected counties.

VA – revised winter RFG calculations in Mobile 6 inputs.

WV – revised VMT input data.

AL, FL, and GA did not provide updates for Base G and therefore the Base F inputs were used for these States.

#### **1.3.1.1 Emissions from on-road mobile sources**

The MOBILE6 module of the Sparse Matrix Operator Kernel Emissions (SMOKE) model was used to develop the on-road mobile source emissions estimates for CO, NO<sub>x</sub>, NH<sub>3</sub>, SO<sub>2</sub>, PM, and VOC emissions. The MOBILE6 parameters, vehicle fleet descriptions, and VMT estimates are combined with gridded, episode-specific temperature data to calculate the gridded, temporalized emission estimates. The MOBILE6 emissions factors are based on episode-specific temperatures predicted by the meteorological model. Further, the MOBILE6 emissions factors model accounts for the following:

- Hourly and daily minimum/maximum temperatures;



- Facility speeds;
- Locale-specific inspection/maintenance (I/M) control programs, if any;
- Adjustments for running losses;
- Splitting of evaporative and exhaust emissions into separate source categories;
- VMT, fleet turnover, and changes in fuel composition and Reid vapor pressure (RVP).

The primary input to MOBILE6 is the MOBILE shell file. The MOBILE shell contains the various options (e.g. type of inspection and maintenance program in effect, type of oxygenated fuel program in effect, alternative vehicle mix profiles, RVP of in-use fuel, operating mode) that direct the calculation of the MOBILE6 emissions factors. The shells used in these runs were based on VISTAS Base F modeling inputs as noted in the previous section.

For this analysis, the on-road mobile source emissions were produced using selected weeks (seven days) of each month and using these days as representative of the entire month. This selection criterion allows for the representation of day-of-the-week variability in the on-road motor vehicles, and models a representation of the meteorological variability in each month. The modeled weeks were selected from mid-month, avoiding inclusion of major holidays.

The parameters for the SMOKE runs are as follows:

Episodes:

2002 Initial Base Year, and  
2009 and 2018 Future years, using 2009/2018 inventories and modeled using the same meteorology and episode days as 2002.

Episode represented by the following weeks per month:

January 15-21  
February 12-18  
March 12-18  
April 16-22  
May 14-20  
June 11-17  
July 16-22  
August 13-19  
September 17-23  
October 15-21  
November 12-18  
December 17-23



Days modeled as holidays for annual run:

New Year's Day - January 1  
 Good Friday – March 29  
 Memorial Day – May 27  
 July 4th  
 Labor Day – September 2  
 Thanksgiving Day – November 28, 29  
 Christmas Eve – December 24  
 Christmas Day – December 25

Output time zone:

Greenwich Mean Time (zone 0)

Projection:

Lambert Conformal with Alpha=33, Beta=45, Gamma=-97, and center at (-97, 40).

Domain:

36 Kilometer Grid: Origin at (-2736, -2088) kilometers with 148 rows by 112 columns and 36-km square grid cells.  
 12 Kilometer Grid: Origin at (108, -1620) kilometers with 168 rows by 177 columns and 12-km square grid cells.

CMAQ model species:

The CMAQ configuration was CB-IV with PM. The model species produced were: CO, NO, NO<sub>2</sub>, ALD<sub>2</sub>, ETH, FORM, ISOP, NR, OLE, PAR, TERPB, TOL, XYL, NH<sub>3</sub>, SO<sub>2</sub>, SULF, PEC, PMFINE, PNO<sub>3</sub>, POA, PSO<sub>4</sub>, and PMC.

Meteorology data:

Daily (25-hour). SMOKE requires the following five types of MCIP outputs: (1) Grid cross 2-d, (2) Grid cross 3-d, (3) Met cross 2-d, (4) Met cross 3-d, and (5), Met dot 3-d.

The reconstructed emissions based on the representative week run were calculated by mapping each day of week (Mon, Tue, Wed, etc.) from the modeled month to the same day of week generated in the representative week run. In the case of holidays, these days were mapped to representative week Sundays. An example of this mapping for the January episode is presented in Table 1.3-1 below. Note that although the emissions were generated for individual calendar years (2002, 2009 and 2018) the meteorology is based on 2002.

**Table 1.3-1 Representative day mapping for January episode**

**(Highlighted representative week)**



| Modeled Date | Representative Day | Modeled Date | Representative Day | Modeled Date | Representative Day |
|--------------|--------------------|--------------|--------------------|--------------|--------------------|
| 1/1/2002*    | 1/20/2002          | 1/11/2002    | 1/18/2002          | 1/22/2002    | 1/15/2002          |
| 1/2/2002     | 1/16/2002          | 1/12/2002    | 1/19/2002          | 1/23/2002    | 1/16/2002          |
| 1/3/2002     | 1/17/2002          | 1/13/2002    | 1/20/2002          | 1/24/2002    | 1/17/2002          |
| 1/4/2002     | 1/18/2002          | 1/14/2002    | 1/21/2002          | 1/25/2002    | 1/18/2002          |
| 1/5/2002     | 1/19/2002          | 1/15/2002    | 1/15/2002          | 1/26/2002    | 1/19/2002          |
| 1/6/2002     | 1/20/2002          | 1/16/2002    | 1/16/2002          | 1/27/2002    | 1/20/2002          |
| 1/7/2002     | 1/21/2002          | 1/17/2002    | 1/17/2002          | 1/28/2002    | 1/21/2002          |
| 1/8/2002     | 1/15/2002          | 1/18/2002    | 1/18/2002          | 1/29/2002    | 1/15/2002          |
| 1/9/2002     | 1/16/2002          | 1/19/2002    | 1/19/2002          | 1/30/2002    | 1/16/2002          |
| 1/10/2002    | 1/17/2002          | 1/20/2002    | 1/20/2002          | 1/31/2002    | 1/17/2002          |
|              |                    | 1/21/2002    | 1/21/2002          |              |                    |

\* Modeled holiday

### 1.3.2 Development of non-road emission estimates

Emissions from non-road sources were estimated in two steps. First, emissions for non-road sources that are included in the NONROAD model were developed. Second, emissions from sources not included in the NONROAD model were estimated. The sections below detail the procedures used for each group of sources.

#### 1.3.2.1 Emissions from NONROAD model sources

An initial 2002 base year emissions inventory for non-road engines and equipment covered by the EPA NONROAD model was prepared for VISTAS in early 2004. The methods and assumptions used to develop the inventory are presented in a February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc. Except as otherwise stated below, all aspects of the preparation methodology documented in that report continue to apply to the revised NONROAD modeling discussed in this section.

Revisions to the initial 2002 NONROAD emissions inventory were implemented to ensure that the latest State and local data were considered, as well as to more accurately reflect gasoline sulfur contents for 2002 and correct other State-specific discrepancies. Those revisions comprise the Base F VISTAS non-road inventory. This section details the specific revisions made to the NONROAD model input files for the Base F and Base G VISTAS base year inventories, and provides insight into some key differences between the versions of the NONROAD model employed for the Base F and Base G inventories and the previous version employed for the initial 2002 base year inventory prepared by Pechan.

Revisions to the initial 2002 emissions inventory prepared by Pechan were actually implemented in two stages. An initial set of revisions was implemented in the fall of 2004. Those revisions resulted in the Base F inventory. These were followed by a second set of revisions in the spring



of 2006. Those estimates produced the Base G base year inventory. To accurately document the combined effects of both sets of revisions, each set is discussed separately below. Unless otherwise indicated, all revisions implemented in Base F were carried directly into the Base G revision process without change. Thus, the inventories that resulted from the Base F revisions served as the starting point for the Base G revisions.

For Base F, three VISTAS States provided detailed data revisions for consideration in developing revised model inputs. These States were:

1. North Carolina
2. Tennessee (including a separate submission for Davidson County), and
3. Virginia.

The remaining seven VISTAS States indicated that the initial 2002 VISTAS input files prepared by Pechan continued to reflect the most recent data available. These States were:

1. Alabama,
2. Florida,
3. Georgia,
4. Kentucky,
5. Mississippi,
6. South Carolina, and
7. West Virginia.

However, it should be recognized that the NONROAD input files for *all* ten VISTAS States were updated to reflect gasoline sulfur content revisions for the Base F 2002 base year inventory (as discussed below). The original files prepared by Pechan are available on their FTP site in the /pub/VISTAS/MOB\_0104/ directory.

Before presenting the specific implemented revisions, it is important to note that the Base F 2002 base year inventory utilized a newer release of the NONROAD model than was used for the initial 2002 base year inventory (prepared by Pechan). The Base F 2002 base year inventory, as developed in spring 2004, was based on the Draft NONROAD2004 model, which was released by the EPA in May of 2004. This model is no longer available on EPA's website. The initial 2002 base year inventory (prepared by Pechan) was based on the Draft NONROAD2002a version of the model (which is also no longer available on EPA's website). Key differences between the models are as follows:

- Draft NONROAD2004 included the effects of the Tier 4 non-road engine and equipment standards (this did not impact the Base F 2002 inventory estimates, but did affect Base F future year forecasts).



- Draft NONROAD2004 included the *exhaust* emission impacts of the large spark-ignition engine standards; the evaporative impacts of these standards are *not* incorporated (this does not impact 2002 inventory estimates, but does affect future year forecasts).
- Draft NONROAD2004 included revised equipment population estimates.
- The PM<sub>2.5</sub> fraction for *diesel* equipment in Draft NONROAD2004 had been updated from 0.92 to 0.97.
- Draft NONROAD2004 included revisions to recreational marine activity, useful life, and emission rates.

To the extent that these revisions affect 2002 emissions estimates, they will be reflected as differentials between the initial and Base F 2002 VISTAS base year inventories. It is perhaps important to identify that, at the time of the Base F inventory revisions; the EPA recognized the Draft NONROAD2004 model as an appropriate mechanism for SIP development. Although the model was designated as a draft update, it reflected the latest and most accurate NONROAD planning data at that time, as evidenced by the EPA's use of that version for the Tier 4 Final Rulemaking.

Prior to the Base G inventory revisions implemented in 2006, the EPA released another updated version of the NONROAD model, designated as Final NONROAD2005 (which can be downloaded from: <http://www.epa.gov/OMSWWW/nonrdmdl.htm#model>). This version ostensibly represents the final version of the model, although certain components of it have been updated since its first release in December 2005. For the Base G inventory developed in the first half of 2006, all updates of the Final NONROAD2005 model through March 2006 are included. Key differences between Final NONROAD2005 and Draft NONROAD2004 are as follows:

- Final NONROAD2005 reflects the latest basic emission rate and deterioration data.
- Final NONROAD2005 includes emission estimates for a range of evaporative emissions categories not included in Draft NONROAD2004 (tank and hose permeation, hot soak, and running loss emissions).
- Final NONROAD2005 includes a revised diurnal emissions algorithm.
- Final NONROAD2005 includes a revised equipment scrappage algorithm.
- Final NONROAD2005 includes revised state and county equipment allocation data.
- Final NONROAD2005 allows separate sulfur content inputs for marine and land-based diesel fuel.
- Final NONROAD2005 includes revised conversion factors for hydrocarbon emissions.



- Final NONROAD2005 includes the evaporative emission impacts of the large spark-ignition engine standards (this does not impact 2002 inventory estimates, but does affect future year forecasts).

Unfortunately, due to the extensive revisions associated with Final NONROAD2005, input files created for use with Draft NONROAD2004 (e.g., Base F input files) and earlier versions of the model cannot be used directly with Final NONROAD2005 (used for Base G). This created a rather significant impact in that the VISTAS NONROAD modeling process involves the consideration of over 200 unique sets of input data. To avoid creating new input files for each of these datasets, a conversion process was undertaken wherein each of the Draft NONROAD2004 (Base F) input data files were converted into the proper format required for proper execution in Final NONROAD2005 (Base G).<sup>1</sup> This process consisted of the following steps:

- Revise the Draft NONROAD2004 (Base F) input files to include the following two line EPA-developed comment at the end of the input file header (this is a nonsubstantive change implemented solely for consistency with input files produced directly using Final NONROAD2005):

```
9/2005 epa: Add growth & tech years to OPTIONS packet
and Counties & Retrofit files to RUNFILES packet.
```

- Revise the Draft NONROAD2004 (Base F) input files to include the following two command lines after the “Weekday or weekend” command in the PERIOD packet:

```
Year of growth calc:
Year of tech sel  :
```

- Revise the Draft NONROAD2004 (Base F) input files to include the following command line after the “Diesel sulfur percent” command in the OPTIONS packet:

```
Marine Dsl sulfur %: 0.2638
```

Note that the value 0.2638 (2638 parts per million by weight [ppmW]) is applicable only for 2002 modeling and was accordingly revised (as described below) for both the 2009 and 2018 Base G forecast inventories. The 2638 ppmW sulfur value for 2002 marine diesel fuel was taken from the 48-State (excludes Alaska and Hawaii) tabulation presented in the April 27, 2004 EPA document “*Diesel Fuel Sulfur Inputs for the Draft*

---

<sup>1</sup> The necessary conversions were developed by comparing substantively identical input files created using the graphical user interfaces for both Draft NONROAD2004 and Final NONROAD2005. The differences between the input files indicated the specific revisions necessary to convert existing VISTAS input files into Final NONROAD2005 format.



*NONROAD2004 Model used in the 2004 Non-road Diesel Engine Final Rule.*” It should also be noted that this value differs by about 5 percent from the 2500 ppmW value previously used for the initial 2002 VISTAS modeling (performed by Pechan). Prior to Final NONROAD2005 (used for Base G), the NONROAD model allowed only a single diesel fuel sulfur input that was applied to both land-based and marine equipment. As documented in the February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc., a value of 2500 ppmW sulfur was used for all 2002 VISTAS NONROAD modeling. Given the ability of Final NONROAD2005 to distinguish a separate sulfur content for marine equipment and the existing EPA guidance document suggesting an appropriate marine sulfur value of 2638 ppmW for 2002, the existing modeling value of 2500 ppmW was modified (for marine equipment only).

- Replace the Draft NONROAD2004 (Base F) input files RUNFILES packet command line:

```
TECHNOLOGY      : c:\non-road\data\tech\tech.dat
```

with the command lines:

```
EXH TECHNOLOGY  : c:\non-road\data\tech\tech-exh.dat
EVP TECHNOLOGY  : c:\non-road\data\tech\tech-evp.dat
```

- Revise the Draft NONROAD2004 (Base F) input files to include the following two command lines after the “EPS2 AMS” command in the RUNFILES packet:

```
US COUNTIES FIPS : c:\non-road\data\allocate\fips.dat
RETROFIT         :
```

- Revise the Draft NONROAD2004 (Base F) input files to include the following command line after the “Rec marine outbrd” command in the ALLOC FILES packet:

```
Locomotive NOx   : c:\non-road\data\allocate\XX_rail.alo
```

Where “XX” varies across input files. For any given file, “XX” is the two digit abbreviation of the state associated with the scenario being modeled (e.g., for Alabama modeling, XX=AL).

- Replace the Draft NONROAD2004 (Base F) input files EMFAC FILES packet command line:

```
Diurnal          : c:\non-road\data\emsfac\diurnal.emf
```



with the eight command lines:

```
Diurnal      : c:\non-road\data\emsfac\evdiu.emf
TANK PERM    : c:\non-road\data\emsfac\evtank.emf
NON-RM HOSE PERM : c:\non-road\data\emsfac\evhose.emf
RM FILL NECK PERM : c:\non-road\data\emsfac\evneck.emf
RM SUPPLY/RETURN : c:\non-road\data\emsfac\evsupret.emf
RM VENT PERM   : c:\non-road\data\emsfac\evvent.emf
HOT SOAKS     : c:\non-road\data\emsfac\evhotsk.emf
RUNINGLOSS    : c:\non-road\data\emsfac\evrunls.emfEVP
```

- Revise the Draft NONROAD2004 (Base F) input files to include the following command line after the “PM exhaust” command in the DETERIORATE FILES packet:

```
Diurnal      : c:\non-road\data\detfac\evdiu.det
```

Once revised in this format, the VISTAS non-road input files developed for use with Draft NONROAD2004 (Base F) were executable under the Final NONROAD2005 model (Base G).

The only additional revisions implemented to develop a Final NONROAD2005-based inventory (Base G) involved elimination of non-default equipment allocation files for North Carolina and West Virginia. Due to concerns about improper equipment allocation across counties under the Draft NONROAD2004 model (used for Base F), as well as for earlier versions of the NONROAD model, North Carolina had produced alternative allocation data files indicating the number of employees in air transportation by county, the number of wholesale establishments by county, and the number of employees in landscaping services by county. For the same reason, West Virginia had produced alternative equipment allocation files indicating the number of employees in air transportation by county, the tonnage of underground coal production by county, the number of golf courses and country clubs by county, the number of wholesale establishments by county, the number of employees in logging operations by county, the number of employees in landscaping services by county, the number of employees in manufacturing operations by county, the number of employees in oil and gas drilling and extraction operations by county, and the number of recreational vehicle parks and campgrounds by county. These alternative equipment allocation files were used for all VISTAS inventory modeling conducted prior to the release of Final NONROAD2005 (i.e., through Base F). However, both North Carolina and West Virginia determined that the default allocation file revisions associated with the release of Final NONROAD2005 were appropriate to address the concerns that led to the development of the alternative allocation files. As a result, all alternative allocation file commands were removed from VISTAS NONROAD2005 (Base G) input files for North Carolina and West Virginia, so that the entire region under the Base G inventory is now modeled using the default allocation files provided with NONROAD2005.



In addition to the alternative equipment allocation files, North Carolina had previously developed an alternative seasonal adjustment file that was used for the Base F inventory in place of the default file provided with Draft NONROAD2004 (and earlier model versions). The alternative data file implemented a single change, namely reclassifying North Carolina as a southeastern state rather than a mid-Atlantic state (as identified in the default data file). Since Final NONROAD2005 continues to identify North Carolina as a mid-Atlantic state, North Carolina requested that the southeastern reclassification be continued for all NONROAD2005 modeling (Base G). To ensure that any other revisions associated with the seasonal adjustment file released with NONROAD2005 were not overlooked, the previously developed alternative seasonal adjustment file for North Carolina was scrapped and a new alternative file was created from the default seasonal adjustment file provided with Final NONROAD2005 for Base G inventory development. The alternative file, which was used for all North Carolina modeling, reclassifies North Carolina from a mid-Atlantic to a southeastern state. This represents the only non-default data file used for VISTAS NONROAD2005-based (Base G) modeling.

The remainder of this section documents all changes to the originally established VISTAS input file values as documented in the February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc. Unless specifically stated below, all values from that report continue to be used without change in the latest VISTAS modeling.

### **Base F Revisions:**

For the initial 2002 base year inventory (developed by Pechan), all NONROAD modeling runs for VISTAS were performed utilizing a gasoline sulfur content of 339 ppmW and a diesel sulfur content of 2,500 ppmW. Although the EPA-recommended non-road diesel fuel sulfur content for 2002 is 2,283 ppmW, the 2,500 ppmW sulfur content used for the initial 2002 base year VISTAS inventory was designed to remove the effect of lower non-road diesel fuel sulfur limits applicable only in California. (The EPA recommended inputs can be found in “*Diesel Fuel Sulfur Inputs for the Draft NONROAD2004 Model used in the 2004 Non-road Diesel Engine Final Rule*,” EPA, April 27, 2004.) This correction is appropriate and was retained for the Base F 2002 inventory. Thus, the Base F inventory continued to assume a diesel fuel sulfur content of 2,500 ppmW across the VISTAS region.

However, 339 ppmW is not the EPA recommended 2002 gasoline sulfur content for either eastern conventional gasoline areas or Federal Reformulated Gasoline (RFG) areas. The recommended sulfur content for eastern conventional gasoline is 279 ppmW year-round, while the recommended sulfur content for RFG areas is 129 ppmW during the summer season and 279 ppmW during the winter season. (Conventional gasoline and RFG sulfur contents for 2002 can be found in “*User’s Guide to MOBILE6.1 and MOBILE6.2, Mobile Source Emission Factor*”



*Model*,” EPA420-R-03-010, U.S. EPA, August 2003 [pages 149-155] (available at link at <http://www.epa.gov/otaq/m6.htm>) and in the source code for MOBILE6.2 at Block Data BD05.) Given the differences in the EPA-recommended values and the value used to generate the initial 2002 base year inventory, the input files for Base F for *all* VISTAS areas were updated to reflect revised gasoline sulfur content assumptions.

Since the VISTAS NONROAD modeling is performed on a seasonal basis, and since gasoline sulfur content in RFG areas varies with the RFG season, seasonally-specific gasoline sulfur content values were estimated for use in RFG area modeling. In addition, 25 counties in Georgia are subject to a summertime gasoline sulfur limit of 150 ppmW, so that seasonal sulfur content estimates were also estimated for these counties. The initial 2002 base year NONROAD inventory (prepared by Pechan) for these Georgia counties was based on a year-round 339 ppmW gasoline sulfur content, but that oversight was corrected in the Base F 2002 base year inventory. Based on the seasonal definitions employed in the NONROAD model, monthly sulfur contents were averaged to estimate seasonal gasoline sulfur contents as follows:



| Month/Season | RFG Areas | Conventional Gasoline Areas | Georgia Gasoline Control Areas |
|--------------|-----------|-----------------------------|--------------------------------|
| March        | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| April        | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| May          | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| Spring       | 229 ppmW  | 279 ppmW                    | 236 ppmW                       |
| June         | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| July         | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| August       | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| Summer       | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| September    | 129 ppmW  | 279 ppmW                    | 150 ppmW                       |
| October      | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| November     | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| Fall         | 229 ppmW  | 279 ppmW                    | 236 ppmW                       |
| December     | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| January      | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| February     | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |
| Winter       | 279 ppmW  | 279 ppmW                    | 279 ppmW                       |

Note that the seasonal data are based on simple arithmetic averages and do not consider any monthly variation in activity (and fuel sales), and that the transition between summer and winter seasons is also not considered. Additionally, the summer fuel control season is treated as though it applies from May through September, while the summer RFG season actually ends on September 15 and the Georgia fuel control season does not officially begin until June 1. This treatment is consistent with the treatment of both fuel control programs in the VISTAS on-road vehicle modeling. Each of these influences will result in some error in the estimated sulfur content estimates, but it is expected that this error is small relative to the overall correction from a year-round sulfur content estimate of 339 ppmW.

All NONROAD modeling revisions made as part of the Base F inventory preparation process are presented in Table 1.3-2. Due to more involved updates in several areas, the number of NONROAD input files as well as sequence numbers used to represent these files was also updated in a few instances (as compared to the files used to create the initial 2002 VISTAS non-road inventory, as documented in the February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc. These structural revisions are presented in Table 1.3-3, and are provided



solely for the benefit of NONROAD modelers as the indicated revisions have no impact on generated emission estimates.

**Table 1.3-2 Summary of Base F NONROAD Modeling Revisions**

| State | Revisions Implemented   |
|-------|---|
| AL    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).  |
| FL    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).  |
| GA    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all seasons for conventional gasoline counties.<br>(2) Gasoline sulfur content changed from 339 ppmW to 150 ppmW in the summer for all gasoline control counties.<br>(3) Gasoline sulfur content changed from 339 ppmW to 236 ppmW in the spring and fall for all gasoline control counties.<br>(4) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in the winter for all gasoline control counties.<br><i>Gasoline control counties: Barrow, Bartow, Butts, Carroll, Cherokee (a), Clayton (a), Cobb (a), Coweta (a), Dawson, De Kalb (a), Douglas (a), Fayette (a), Forsyth (a), Fulton (a), Gwinnett (a), Hall, Haralson, Henry (a), Jackson, Newton, Paulding (a), Pickens, Rockdale (a), Spalding, and Walton</i> |
| KY    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all seasons for conventional gasoline counties.<br>(2) Gasoline sulfur content changed from 339 ppmW to 129 ppmW in the summer for all gasoline control counties.<br>(3) Gasoline sulfur content changed from 339 ppmW to 229 ppmW in the spring and fall for all gasoline control counties.<br>(4) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in the winter for all gasoline control counties.<br><i>Gasoline control counties: Boone, Bullitt (b), Campbell, Jefferson, Kenton, and Oldham (b)</i>  |
| MS    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).  |
| NC    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).<br>(2) Utilize revised (i.e., local) allocation files for three equipment categories.<br>(3) Utilize revised (i.e., local) seasonal activity data.   |
| SC    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).  |
| TN    | (1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).<br>(2) Gasoline Reid Vapor Pressure (RVP) values changed in accordance with local recommendations.<br>(3) Temperature data changed in accordance with local recommendations.<br>(4) Counties regrouped in accordance with local recommendations.   |



**Table 1.3-2. Summary of Base F NONROAD Modeling Revisions (continued)**

| State | Revisions Implemented   |
|-------|---|
| VA    | <p>(1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all seasons for conventional gasoline counties.</p> <p>(2) Gasoline sulfur content changed from 339 ppmW to 129 ppmW in the summer for all gasoline control counties.</p> <p>(3) Gasoline sulfur content changed from 339 ppmW to 229 ppmW in the spring and fall for all gasoline control counties.</p> <p>(4) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in the winter for all gasoline control counties.</p> <p>(5) Gasoline RVP values changed in accordance with local recommendations.</p> <p>(6) Counties regrouped in accordance with local recommendations.</p> <p>(7) The control effectiveness for counties subject to Stage II controls revised to 77 percent in accordance with local recommendations.</p> <p><i>Gasoline control counties: Arlington Co., Fairfax Co., Loudoun Co., Prince William Co., Stafford Co., Alexandria City, Fairfax City, Falls Church City, Manassas City, Manassas Park City, Chesterfield Co., Hanover Co., Henrico Co., Colonial Heights City, Hopewell City, Richmond City, James City, York Co., Chesapeake City, Hampton City, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, and Williamsburg City (c)</i></p> |
| WV    | <p>(1) Gasoline sulfur content changed from 339 ppmW to 279 ppmW in all counties and all seasons (all are conventional gasoline areas).</p> <p>(2) Continue to utilize local allocation files for nine equipment categories.</p>  |

**Notes:**

- (a) County is subject to local control currently, but is scheduled to join the RFG program in January 2005.
- (b) Control area is a portion of the county, but modeling is performed as though the control applies countywide.
- (c) The EPA also lists Charles City County as an RFG area, but local planners indicate that Charles City County is a conventional gasoline area and it is modeled as such.



**Table 1.3-3 Base F NONROAD Input File Sequence and Structural Revisions**

| State      | Initial 2002 Base Year Inventory Input File Sequence Numbers | Revised 2002 Inventory Input File Sequence Numbers | Reason(s) for Change  | Number of Revised 2002 Inventory NONROAD Input Files |
|------------|--|--|-----------------------|--|
| AL         | 01-08  | 01-08  | No Structural Changes | 32 (at 8 per season)                                 |
| FL         | 09-10  | 09-10  | No Structural Changes | 8 (at 2 per season)                                  |
| GA         | 11-13  | 11-13  | No Structural Changes | 12 (at 3 per season)                                 |
| KY         | 14-22  | 14-22  | No Structural Changes | 36 (at 9 per season)                                 |
| MS         | 48   | 48   | No Structural Changes | 4 (at 1 per season)                                  |
| NC         | 23-25  | 23-25  | No Structural Changes | 12 (at 3 per season)                                 |
| SC         | 26-32  | 26-32  | No Structural Changes | 28 (at 7 per season)                                 |
| TN         | 33-34  | 33-34, 49-52                                       | Counties Regrouped    | 24 (at 6 per season)                                 |
| VA         | 35-43  | 35-38, 40-43                                       | Counties Regrouped    | 32 (at 8 per season)                                 |
| WV         | 44-47  | 44-47  | No Structural Changes | 16 (at 4 per season)                                 |
| <b>All</b> | <b>01-48</b>   | <b>01-38, 40-52</b>                                |                       | <b>204 (at 51 per season)</b>                        |

- Note:** (1) All files include internal revisions to reflect the data changes summarized in Table 1.3-3 above. This table is intended to present structural revisions that are of interest in assembling the NONROAD model input files into a complete VISTAS region inventory. The indicated revisions do not (in and of themselves) result in emission estimate changes.
- (2) The NONROAD model imposes an eight digit input file name limit, so all input files for the revised 2002 base year inventory follow a modified naming convention to allow each to be distinguished from the input files for the initial 2002 base year inventory. For the initial 2002 base year inventory, the naming convention was:

**ss02aaqq,** where: ss = the two character State abbreviation,  
aa = a two character season indicator as follows: AU = autumn,  
WI = winter, SP = spring, and SU = summer, and  
qq = the two digit sequence number indicated above.

For the revised 2002 inventory, the naming convention was modified to:

**ss02aFqq,** where: ss = the two character State abbreviation,  
a = a one character season indicator as follows: A = autumn,  
W = winter, S = spring, and X = summer, and  
qq = the two digit sequence number indicated above.



### **Base G Revisions:**

As described above, the primary modeling revision implemented for the Base G 2002 inventory was the use of the Final NONROAD2005 model (in place of the Base F use of Draft NONROAD2004). However, there were other minor revisions implemented for 13 Georgia counties and somewhat more significant revisions implemented for Tennessee. In Georgia, Stage II refueling control was assumed for 13 counties that previously were modeled as having no refueling control under Base F. In addition, to accommodate this Stage II change as well as forecast year changes in gasoline vapor pressure, corresponding changes in the structure and sequence of Georgia NONROAD input files were made. With the exception of the minor Stage II impacts, these structural and sequence changes have no impact on 2002 emission estimates, but allow for consistency between 2002 and forecast year input file structure and sequence. In Tennessee, more significant changes were implemented to gasoline vapor pressure assumptions, as well as similar minor changes in Stage II refueling control assumptions.

In accordance with instructions from Georgia regulators, Stage II refueling control was assumed in the following 13 Georgia counties at a control efficiency value of 81 percent for the Base G inventory:

Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton,  
Gwinnett, Henry, Paulding, and Rockdale.

No Stage II control was assumed in these counties in prior inventories.

Tennessee regulators provided revised monthly values for gasoline vapor pressure. Based on the seasonal definitions employed in the NONROAD model, monthly vapor pressures were averaged to estimate seasonal vapor pressures as follows:



| Month/Season    | Nashville Area | Memphis Area | Remainder of Tennessee |
|-----------------|----------------|--------------|------------------------|
| March           | 13.5 psi       | 13.5 psi     | 13.5 psi               |
| April           | 13.5 psi       | 13.5 psi     | 13.5 psi               |
| May             | 9.0 psi        | 9.0 psi      | 9.0 psi                |
| Spring          | 12.0 psi       | 12.0 psi     | 12.0 psi               |
| June            | 7.8 psi        | 7.8 psi      | 9.0 psi                |
| July            | 7.8 psi        | 7.8 psi      | 9.0 psi                |
| August          | 7.8 psi        | 7.8 psi      | 9.0 psi                |
| Summer          | 7.8 psi        | 7.8 psi      | 9.0 psi                |
| September 1-15  | 7.8 psi        | 7.8 psi      | 9.0 psi                |
| September 16-30 | 11.5 psi       | 11.5 psi     | 11.5 psi               |
| October         | 13.5 psi       | 13.5 psi     | 13.5 psi               |
| November        | 13.5 psi       | 13.5 psi     | 13.5 psi               |
| Fall            | 12.2 psi       | 12.2 psi     | 12.4 psi               |
| December        | 15.0 psi       | 15.0 psi     | 15.0 psi               |
| January         | 15.0 psi       | 15.0 psi     | 15.0 psi               |
| February        | 13.5 psi       | 13.5 psi     | 13.5 psi               |
| Winter          | 14.5 psi       | 14.5 psi     | 14.5 psi               |

**Note:** The Nashville area consists of Davidson, Rutherford, Sumner, Williamson and Wilson counties, the Memphis area consists of Shelby County.

As with the Base F revisions, the seasonal data are based on simple arithmetic averages and do not consider any monthly variation in activity (and fuel sales), nor is the transition between summer and winter seasons considered. Additionally, a monthly average of the September 1-15 and September 16-30 data is calculated prior to averaging the September-November data to estimate a fall average vapor pressure, so that the month of September is weighted identically to the months of October and November.

Tennessee regulators also indicated that Stage II vapor recovery was not in effect in Shelby County, so the Base F NONROAD input files for the county (which assumed Stage II was in place) were revised accordingly.

All Base G NONROAD modeling revisions are presented in Table 1.3-4. As indicated above, the differentiation of inputs across previously grouped counties also required revision to the overall number and sequence of VISTAS NONROAD input files (as compared to the files used to create both the initial VISTAS non-road inventory, as documented in the February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc., and the Base F revised inventory as



documented above. These structural revisions are presented in Table 1.3-5, and are provided solely for the benefit of NONROAD modelers as the indicated revisions have no impact on generated emission estimates.

**Table 1.3-4 Summary of Base G NONROAD Modeling Revisions**

| State | Revisions Implemented  |
|-------|--|
| AL    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| FL    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| GA    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.<br>(2) Stage II refueling vapor recovery implemented in 13 counties at an efficiency of 81 percent.<br>(3) Counties regrouped to accommodate base and forecast year data differentiations.<br><i>Stage II control counties: Cherokee, Clayton, Cobb, Coweta, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Paulding, and Rockdale</i> |
| KY    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| MS    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| NC    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.<br>(2) Revert to default equipment allocation files for all equipment categories.<br>(3) Utilize revised (i.e., local) seasonal activity data.   |
| SC    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| TN    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.<br>(2) Gasoline RVP values changed in accordance with local recommendations.<br>(3) Stage II vapor recovery eliminated from Shelby County modeling.  |
| VA    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.  |
| WV    | (1) Marine diesel sulfur content changed from 2500 ppmW to 2638 ppmW in all counties and seasons.<br>(2) Revert to default equipment allocation files for all equipment categories.  |



**Table 1.3-5 Spring 2006 NONROAD Input File Sequence and Structural Revisions**

| State      | 2002 Inventory<br>Input File<br>Sequence Numbers<br>(Fall 2004) | 2002 Inventory<br>Input File<br>Sequence Numbers<br>(Spring 2006) | Reason(s) for Change  | Number of<br>Final 2002 Inventory<br>NONROAD Input Files |
|------------|---|---|-----------------------|--|
| AL         | 01-08   | 01-08   | No Structural Changes | 32 (at 8 per season)                                     |
| FL         | 09-10   | 09-10   | No Structural Changes | 8 (at 2 per season)                                      |
| GA         | 11-13   | 11-13, 53-54  | Counties Regrouped    | 20 (at 5 per season)                                     |
| KY         | 14-22   | 14-22   | No Structural Changes | 36 (at 9 per season)                                     |
| MS         | 48  | 48  | No Structural Changes | 4 (at 1 per season)                                      |
| NC         | 23-25   | 23-25   | No Structural Changes | 12 (at 3 per season)                                     |
| SC         | 26-32   | 26-32   | No Structural Changes | 28 (at 7 per season)                                     |
| TN         | 33-34, 49-52  | 33-34, 49-52  | No Structural Changes | 24 (at 6 per season)                                     |
| VA         | 35-38, 40-43  | 35-38, 40-43  | No Structural Changes | 32 (at 8 per season)                                     |
| WV         | 44-47   | 44-47   | No Structural Changes | 16 (at 4 per season)                                     |
| <b>All</b> | <b>01-38, 40-52</b>   | <b>01-38, 40-54</b>   |                       | <b>212 (at 53 per season)</b>                            |

**Note:** (1) All files include internal revisions to reflect the data changes summarized in Table 1.3-5 above. This table is intended to present structural revisions that are of interest in assembling the NONROAD model input files into a complete VISTAS region inventory. The indicated revisions do not (in and of themselves) result in emission estimate changes.

(2) The NONROAD model imposes an eight digit input file name limit, so all input files for the revised 2002 base year inventory follow a modified naming convention to allow each to be distinguished from the input files for the initial 2002 and fall 2004-revised 2002 base year inventory. For the initial 2002 base year inventory, the naming convention was:

**ss02aaqq**, where: ss = the two character State abbreviation,  
aa = a two character season indicator as follows: AU = autumn,  
WI = winter, SP = spring, and SU = summer, and  
qq = the two digit sequence number indicated above.

For the fall 2004-revised 2002 inventory, the naming convention was modified to:

**ss02aFqq**, where: ss = the two character State abbreviation,  
a = a one character season indicator as follows: A = autumn,  
W = winter, S = spring, and X = summer, and  
qq = the two digit sequence number indicated above.

For the spring 2006-revised 2002 inventory, the naming convention was modified to:

**ss02aCqq**, where: ss = the two character State abbreviation,  
a = a one character season indicator as follows: A = autumn,  
W = winter, S = spring, and X = summer, and  
qq = the two digit sequence number indicated above.



### **1.3.2.2 Emissions from Commercial Marine Vessels, Locomotives, and Airplanes**

An initial 2002 base year emissions inventory for aircraft, locomotives, and commercial marine vessels (CMV) was prepared for VISTAS in early 2004. The methods and data used to develop the inventory are presented in a February 9, 2004 report “*Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)*” as prepared by E.H. Pechan & Associates, Inc. A summary of the initial 2002 base year emissions inventory is presented in Table 1.3-6. Except as otherwise stated below, all aspects of the preparation methodology continue to apply to the Base F and Base G emission inventories.

Revisions to the initial 2002 emissions inventory (prepared by Pechan) were implemented to ensure that the latest State and local data were incorporated as well as to correct an overestimation of PM emissions from aircraft. Revisions were actually implemented in two stages. An initial set of revisions was implemented in the fall of 2004. Those revisions constitute the Base F inventory. These were followed by a second set of revisions in 2006, which constitute the Base G inventory. To accurately document the combined effects of both sets of revisions, each set is discussed separately below. Unless otherwise indicated, all revisions implemented for Base F were carried directly into the Base G revision process without change. Thus, the inventories that resulted from the Base F revisions served as the starting point for the Base G revisions.

#### **Base F Revisions:**

Revisions to the initial 2002 base year emissions inventory were implemented to ensure that the latest State and local data were incorporated as well as to correct an overestimation of PM emissions from aircraft. Seven of the ten VISTAS States provided revised inventory data in the form of emissions reported to the EPA under the CERR. States providing CERR data were Alabama, Georgia, Mississippi, North Carolina, Tennessee (excluding Davidson, Hamilton, Knox, and Shelby Counties), Virginia, and West Virginia.

In many cases, the CERR data were only marginally different than the initial 2002 base year inventory data, but there were several instances where significant updates were evident. The remaining three VISTAS States (Florida, Kentucky, and South Carolina), plus Davidson, Hamilton, Knox, and Shelby counties in Tennessee, indicated that the initial 2002 VISTAS inventory continued to reflect the most recent data available. Florida did provide updated aircraft emissions data for one county (Miami-Dade) and these data were incorporated into the Base F 2002 inventory as described below.

Since several States recommended retaining the initial 2002 base year inventory data for Base F, the initial step toward revising the 2002 inventory consisted of modifying the estimated aircraft PM emissions of the initial inventory. The overestimation of aircraft PM became evident shortly



after the release of the initial 2002 base year inventory, when it was determined that VISTAS region airports would constitute the top seven, and 11 of the top 15, PM sources in the nation. Moreover, PM emissions for one airport (Miami International) were a full order of magnitude larger than *all* other modeled elemental carbon PM emission sources. In addition, unexpected relationships across airports were also observed, with emissions for Atlanta's Hartsfield International being substantially less than those of Miami International, even though Atlanta handles over twice as many aircraft operations annually. Given the pervasiveness of this problem, and since the CERR data submitted by States was based on the initial 2002 VISTAS inventory data, aircraft PM emissions for the entire VISTAS region were recalculated.



**Table 1.3-6 Initial 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions as Reported in February 2004 Pechan Report (annual tons)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 3,787          | 175             | 688              | 475               | 17              | 196           |
|                                | FL           | 28,518         | 11,955          | 46,352           | 31,983            | 1,050           | 3,703         |
|                                | GA           | 3,175          | 992             | 3,919            | 2,704             | 94              | 353           |
|                                | KY           | 2,666          | 657             | 2,597            | 1,792             | 63              | 263           |
|                                | MS           | 1,593          | 140             | 553              | 381               | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 6,115            | 4,219             | 148             | 613           |
|                                | SC           | 6,505          | 515             | 452              | 312               | 88              | 863           |
|                                | TN           | 6,854          | 2,665           | 7,986            | 5,510             | 225             | 920           |
|                                | VA           | 17,676         | 5,607           | 14,476           | 9,988             | 234             | 3,229         |
|                                | WV           | 1,178          | 78              | 310              | 214               | 8               | 66            |
|                                | <b>Total</b> | <b>78,040</b>  | <b>24,332</b>   | <b>83,448</b>    | <b>57,578</b>     | <b>1,940</b>    | <b>10,302</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,195          | 9,217           | 917              | 843               | 3,337           | 736           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,874           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,687          | 43,233          | 1,903            | 1,750             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 4,129          | 31,397          | 1,390            | 1,278             | 5,753           | 980           |
|                                | VA           | 1,198          | 3,426           | 929              | 855               | 3,258           | 596           |
|                                | WV           | 2,094          | 15,882          | 668              | 614               | 720             | 497           |
|                                | <b>Total</b> | <b>29,503</b>  | <b>218,760</b>  | <b>10,858</b>    | <b>9,989</b>      | <b>40,146</b>   | <b>7,779</b>  |
| Military Marine<br>(2283)      | VA           | 136            | 387             | 28               | 26                | 30              | 59            |
|                                | <b>Total</b> | <b>136</b>     | <b>387</b>      | <b>28</b>        | <b>26</b>         | <b>30</b>       | <b>59</b>     |
| Locomotives<br>(2285)          | AL           | 3,490          | 26,339          | 592              | 533               | 1,446           | 1,354         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,654          | 26,733          | 664              | 598               | 1,622           | 1,059         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 4,530          | 44,793          | 1,110            | 999               | 2,689           | 1,805         |
|                                | VA           | 1,928          | 19,334          | 1,407            | 1,266             | 3,443           | 798           |
|                                | WV           | 1,105          | 11,150          | 277              | 249               | 681             | 436           |
|                                | <b>Total</b> | <b>21,980</b>  | <b>211,588</b>  | <b>6,118</b>     | <b>5,505</b>      | <b>14,947</b>   | <b>8,738</b>  |
| <b>Grand Total</b>             |              | <b>129,659</b> | <b>455,067</b>  | <b>100,452</b>   | <b>73,099</b>     | <b>57,062</b>   | <b>26,877</b> |



Aircraft do emit PM while operating. However, official EPA inventory procedures for aircraft generally do not include PM emission factors and, therefore, aircraft PM is generally erroneously reported as zero. In an effort to overcome this deficiency, the developers of the initial VISTAS 2002 base year aircraft inventory (Pechan) estimated PM emission rates for aircraft using estimated NO<sub>x</sub> emissions and an unreported PM-to-NO<sub>x</sub> ratio (i.e., PM = NO<sub>x</sub> times a PM-to-NO<sub>x</sub> ratio). According to the initial 2002 base year inventory documentation, this approach was applied only to commercial aircraft NO<sub>x</sub>, but a review of that inventory indicates that the technique was also applied to military, general aviation, and air taxi aircraft in many, but not all, instances. Although there is nothing inherently incorrect with this approach, the accuracy and inconsistent application of the assumed PM-to-NO<sub>x</sub> ratio results in grossly overestimated aircraft PM.

Through examination of the initial 2002 base year aircraft inventory (prepared by E.H. Pechan and Associates, Inc.), it is apparent that the commercial aircraft PM-to-NO<sub>x</sub> ratio used to generate PM emission estimates was approximately equal to 3.95 (i.e., PM = NO<sub>x</sub> times 3.95). While the majority of observed commercial aircraft PM-to-NO<sub>x</sub> ratios in that inventory are equal to 3.95, a few range as low as 3.00. If all aircraft estimates are included (i.e., commercial plus military, general aviation, and air taxi), observed PM-to-NO<sub>x</sub> ratios range from 0 to 123.0, and average 3.43 as illustrated in Table 1.3-7

**Table 1.3-7 PM-to-NO<sub>x</sub> Ratios by Aircraft Type In Initial 2002 Base Year Inventory.**

| Aircraft Type            | Average PM-to-NO <sub>x</sub> | Range of PM-to-NO <sub>x</sub> | Average PM <sub>2.5</sub> / PM <sub>10</sub> | Range of PM <sub>2.5</sub> / PM <sub>10</sub> |
|--------------------------|-------------------------------|--------------------------------|--|---|
| Undefined <sup>(1)</sup> | 0.046                         | 0-0.062                        | 0.690  | 0.690-0.690                                   |
| Military                 | 0.073                         | 0-92.3                         | 0.688  | 0.333-1.000                                   |
| Commercial               | 3.953                         | 3.00-3.953                     | 0.690  | 0.667-0.696                                   |
| General Aviation         | 2.059                         | 0-9.00                         | 0.689  | 0.500-1.000                                   |
| Air Taxi                 | 2.734                         | 0-123.0                        | 0.690  | 0.500-1.000                                   |
| Aggregate                | 3.427                         | 0-123.0                        | 0.690  | 0.333-1.000                                   |

**Note:** (1) Two counties report aircraft emissions as SCC 2275000000 "all aircraft."

As indicated, the aggregate PM-to-NO<sub>x</sub> ratio is similar in magnitude to the ratio for commercial aircraft. This results from the dominant nature of commercial aircraft NO<sub>x</sub> emissions relative to NO<sub>x</sub> from other aircraft types. It is surmised that ratios that deviate from 3.95 are based on PM emission estimates generated by local planners, which were retained without change in the PM estimation process (although a considerable number of unexplained "zero PM" records also exist



in the initial 2002 base year inventory dataset). Regardless, based on previous statistical analyses performed in support of aircraft emissions inventory development outside the VISTAS region, a PM-to-NO<sub>x</sub> ratio of 3.95 is too large by over an order of magnitude.

In analyses performed for the Tucson, Arizona planning area, PM-to-NO<sub>x</sub> ratios for aircraft over a standard aircraft landing and takeoff (LTO) cycle are shown in Table 1.3-8. Data for this table is taken from “Emissions Inventories for the Tucson Air Planning Area, Volume I., Study Description and Results,” prepared for the Pima Association of Governments, Tucson, AZ, November 2001. Pages 4-40 through 4-42 of that report, which document the statistical derivation of these ratios, are included in this report as Appendix E.

**Table 1.3-8 Tucson, AZ PM-to-NO<sub>x</sub> Ratios by Aircraft Type.**

| Aircraft Type             | PM-to-NO <sub>x</sub> |
|---------------------------|-----------------------|
| Commercial Aircraft       | 0.26                  |
| Military Aircraft         | 0.88                  |
| Air Taxi Aircraft         | 0.50                  |
| General Aviation Aircraft | 1.90                  |

**Note:**

The PM and NO<sub>x</sub> emission estimates presented in the Tucson study are for local aircraft operating mode times. For this work, emission estimates for Tucson were recalculated for a standard LTO cycle, so that the ratios presented are applicable to the standard LTO cycle and not a Tucson-specific cycle. Thus, the ratios presented herein vary somewhat from those associated with the emission estimates presented in the Tucson study report.

In reviewing these data, it should be considered that they apply to a standard (i.e., EPA-defined) commercial aircraft LTO cycle.<sup>2</sup> Aircraft PM-to-NO<sub>x</sub> ratios vary with operating mode, so that aircraft at airports with mode times that differ from the standard cycle will exhibit varying ratios. However, conducting an airport-specific analysis for all airports in the VISTAS region was beyond the scope of this work. While local PM-to-NO<sub>x</sub> ratios could vary somewhat from the indicated standard cycle ratios, any error due to this variation will be significantly less than the order of magnitude error associated with the 3.95 commercial aircraft ratio used for the initial 2002 base year inventory.

It should be recognized that while the Tucson area is far removed from the VISTAS region, the data analyzed to generate the PM-to-NO<sub>x</sub> ratios is standard aircraft emission factor data routinely employed for inventory purposes throughout the United States (as encoded in models such as the

<sup>2</sup> As defined in AP-42, *Compilation of Air Pollutant Emission Factors, Volume II, Mobile Sources*, a standard commercial aircraft LTO cycle consists of 4 minutes of approach time, 26 minutes of taxi (7 minutes in plus 19 minutes out), 0.7 minutes of takeoff, and 2.2 minutes of climbout time (approach and climbout times being based on a 3000 foot mixing height).



Federal Aviation Administration's Emissions Data Management Systems [EDMS]). With the exception of aircraft operating conditions, there are no inherent geographic implications associated with the use of data from the Tucson study. As indicated above, issues associated with local operating conditions have been eliminated by recalculating the Tucson study ratios for a standard LTO cycle.

To implement the revised PM-to-NO<sub>x</sub> ratios in the Base F inventory, *all* aircraft PM records were removed from the initial 2002 base year inventory (prepared by Pechan). This includes records for which local planners may have estimated PM emissions. This approach was taken for two reasons. First, there is no way to distinguish which records may have been generated by local planners. Second, the data available to local planners may be no better than that used to generate the presented PM-to-NO<sub>x</sub> ratio data, so the consistent application of these data to the entire VISTAS region was determined to be the most appropriate approach to generating consistent inventories throughout the region. In undertaking this removal, it became apparent that there was an imbalance in the aircraft NO<sub>x</sub> and PM records in the initial 2002 base year inventory. Whereas there were 1,531 NO<sub>x</sub> records in the NIF emission data sets for this source category, there were only 1,212 PM records. The imbalance was distributed between three States, South Carolina, Tennessee, and Virginia as follows:

**Table 1.3-9 Non-Corresponding Aircraft Emissions Records**

| <i>Aircraft NO<sub>x</sub> records with no corresponding PM record:</i> |                       |                 |              |
|---|-----------------------|-----------------|--------------|
| <b>Aircraft Type</b>  | <b>South Carolina</b> | <b>Virginia</b> | <b>Total</b> |
| Military Aircraft   | 8                     | 100             | 108          |
| General Aviation Aircraft   | 14                    | 94              | 108          |
| Air Taxi Aircraft   | 5                     | 99              | 104          |
| Aggregate   | 27                    | 293             | 320          |
| <i>Aircraft PM records with no corresponding NO<sub>x</sub> record:</i> |                       |                 |              |
| <b>Aircraft Type</b>  | <b>Tennessee</b>      | <b>Total</b>    |              |
| Air Taxi Aircraft   | 1                     | 1               |              |
| Aggregate   | 1                     | 1               |              |

The unmatched PM record was for Hamilton County (Chattanooga), Tennessee and when removed, was not replaced since there was no corresponding NO<sub>x</sub> record with which to estimate revised PM emissions. It is unclear how this orphaned record originated, but clearly there can be no air taxi PM emissions without other combustion-related emissions. Thus, the removal of the PM<sub>10</sub> and PM<sub>2.5</sub> records for Hamilton County permanently reduced the overall size of the 2002 initial base year inventory database used as a starting point for Base F by two records.



Of the 320 unmatched NO<sub>x</sub> records, 269 were records for which the reported emission rate was zero. Therefore, even though associated PM records were missing, the overall inventory was not affected. However, the 51 missing records for which NO<sub>x</sub> emissions were non-zero, did impact PM estimates for the overall inventory.

Replacement PM<sub>10</sub> records were calculated for all aircraft NO<sub>x</sub> records using the PM-to-NO<sub>x</sub> ratios presented above. Aircraft type-specific ratios were utilized in all cases, except for two counties where aircraft emissions were reported under the generic aircraft SCC 2275000000. For these counties (Palm Beach County, Florida and Davidson County, Tennessee), the commercial aircraft PM-to-NO<sub>x</sub> ratio was applied since both contain commercial airports (Palm Beach International and Nashville International).

Replacement aircraft PM<sub>2.5</sub> records were also developed. The initial 2002 base year inventory assumed that aircraft PM<sub>2.5</sub> was 69 percent of aircraft PM<sub>10</sub>. The origin of this fraction is not clear, but it is very low for combustion related PM. The majority of internal combustion engine related PM is typically 1 micron or smaller (PM<sub>1.0</sub>), so that typical internal combustion engine PM<sub>2.5</sub> fractions approach 100 percent. For example, the EPA NONROAD model assumes 92 percent for gasoline engine particulate and 97 percent for diesel engine particulate. Based on recent correspondence from the EPA, it appears that the agency is preparing to recommend a PM<sub>2.5</sub> fraction of 98 percent for aircraft. (August 12, 2004 e-mail correspondence from U.S. EPA to Gregory Stella of Alpine Geophysics.) This is substantially more consistent with expectations based on emissions test data for other internal combustion engine sources and was used as the basis for the recalculated aircraft PM<sub>2.5</sub> emission estimates in the Base F inventory.

Although a substantial portion of the initial 2002 base year inventory was ultimately replaced with data prepared by State and local planners under CERR requirements in developing the Base F inventory, it was necessary to first revise the initial 2002 base year aircraft inventory as described so that records extracted from the inventory for areas not supplying CERR data for the Base F update would be accurate. Therefore, in *no case* is the aggregated State data reported for the Base F inventory identical to that of the initial 2002 base year inventory. Even areas relying on the initial 2002 base year inventory will reflect updates in Base F due to changes in emissions of PM<sub>10</sub> and PM<sub>2.5</sub> from aircraft.

Table 1.3-10 presents the updated initial 2002 base year inventory estimates. These estimates do not reflect any changes related to modifications made to incorporate the CERR data, but instead indicate the impacts associated solely with the recalculation of aircraft PM emissions alone to apply the more appropriate PM to NO<sub>x</sub> ratios. Table 1.3-11 presents a summary of the net impacts of these changes, where an over 90 percent reduction in aircraft PM is observed for all VISTAS areas except South Carolina and Virginia. The reasons for the lesser changes in these two States is that the overall aircraft NO<sub>x</sub> inventories for both include a large share of military



aircraft NO<sub>x</sub> to which no (or very low) particulate estimates were assigned in the initial 2002 base year inventory. Since these operations are assigned non-zero PM emissions under the revised approach, the increase in military aircraft PM offsets a portion of the reduction in commercial aircraft PM. In Virginia, zero (or near zero) PM military operations were responsible for about 35 percent of total aircraft NO<sub>x</sub>, while the corresponding fraction in South Carolina was almost 70 percent. As indicated, aggregate aircraft, locomotive, and commercial marine vessel PM is 70-75 percent lower in the updated 2002 base year inventory.

**Table 1.3-10 Initial 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions with Modified Aircraft PM Emission Rates (annual tons)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 3,787          | 175             | 64               | 62                | 17              | 196           |
|                                | FL           | 28,518         | 11,955          | 3,193            | 3,129             | 1,050           | 3,703         |
|                                | GA           | 3,175          | 992             | 269              | 264               | 94              | 353           |
|                                | KY           | 2,666          | 657             | 179              | 175               | 63              | 263           |
|                                | MS           | 1,593          | 140             | 44               | 43                | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 419              | 411               | 148             | 613           |
|                                | SC           | 6,505          | 515             | 409              | 401               | 88              | 863           |
|                                | TN           | 6,854          | 2,665           | 707              | 692               | 225             | 920           |
|                                | VA           | 17,676         | 5,607           | 2,722            | 2,667             | 234             | 3,229         |
|                                | WV           | 1,178          | 78              | 25               | 24                | 8               | 66            |
|                                | <b>Total</b> | <b>78,040</b>  | <b>24,332</b>   | <b>8,030</b>     | <b>7,870</b>      | <b>1,940</b>    | <b>10,302</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,195          | 9,217           | 917              | 843               | 3,337           | 736           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,874           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,687          | 43,233          | 1,903            | 1,750             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 4,129          | 31,397          | 1,390            | 1,278             | 5,753           | 980           |
|                                | VA           | 1,198          | 3,426           | 929              | 855               | 3,258           | 596           |
|                                | WV           | 2,094          | 15,882          | 668              | 614               | 720             | 497           |
|                                | <b>Total</b> | <b>29,503</b>  | <b>218,760</b>  | <b>10,858</b>    | <b>9,989</b>      | <b>40,146</b>   | <b>7,779</b>  |
| Military Marine<br>(2283)      | VA           | 136            | 387             | 28               | 26                | 30              | 59            |
|                                | <b>Total</b> | <b>136</b>     | <b>387</b>      | <b>28</b>        | <b>26</b>         | <b>30</b>       | <b>59</b>     |
| Locomotives<br>(2285)          | AL           | 3,490          | 26,339          | 592              | 533               | 1,446           | 1,354         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,654          | 26,733          | 664              | 598               | 1,622           | 1,059         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 4,530          | 44,793          | 1,110            | 999               | 2,689           | 1,805         |
|                                | VA           | 1,928          | 19,334          | 1,407            | 1,266             | 3,443           | 798           |
|                                | WV           | 1,105          | 11,150          | 277              | 249               | 681             | 436           |
|                                | <b>Total</b> | <b>21,980</b>  | <b>211,588</b>  | <b>6,118</b>     | <b>5,505</b>      | <b>14,947</b>   | <b>8,738</b>  |
| <b>Grand Total</b>             |              | <b>129,659</b> | <b>455,067</b>  | <b>25,034</b>    | <b>23,390</b>     | <b>57,062</b>   | <b>26,877</b> |



**Table 1.3-11 Change in Initial 2002 Base Year Emissions due to Aircraft PM Emission Rate Modifications.**

| Source                         | State        | CO        | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC       |
|--------------------------------|--------------|-----------|-----------------|------------------|-------------------|-----------------|-----------|
| Aircraft<br>(2275)             | AL           | 0%        | 0%              | -91%             | -87%              | 0%              | 0%        |
|                                | FL           | 0%        | 0%              | -93%             | -90%              | 0%              | 0%        |
|                                | GA           | 0%        | 0%              | -93%             | -90%              | 0%              | 0%        |
|                                | KY           | 0%        | 0%              | -93%             | -90%              | 0%              | 0%        |
|                                | MS           | 0%        | 0%              | -92%             | -89%              | 0%              | 0%        |
|                                | NC           | 0%        | 0%              | -93%             | -90%              | 0%              | 0%        |
|                                | SC           | 0%        | 0%              | -9%              | +29%              | 0%              | 0%        |
|                                | TN           | 0%        | 0%              | -91%             | -87%              | 0%              | 0%        |
|                                | VA           | 0%        | 0%              | -81%             | -73%              | 0%              | 0%        |
|                                | WV           | 0%        | 0%              | -92%             | -89%              | 0%              | 0%        |
|                                | <b>Total</b> | <b>0%</b> | <b>0%</b>       | <b>-90%</b>      | <b>-86%</b>       | <b>0%</b>       | <b>0%</b> |
| Commercial<br>Marine<br>(2280) | AL           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | FL           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | GA           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | KY           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | MS           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | NC           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | SC           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | TN           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | VA           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | WV           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | <b>Total</b> | <b>0%</b> | <b>0%</b>       | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>0%</b> |
| Military Marine<br>(2283)      | VA           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | <b>Total</b> | <b>0%</b> | <b>0%</b>       | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>0%</b> |
| Locomotives<br>(2285)          | AL           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | FL           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | GA           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | KY           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | MS           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | NC           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | SC           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | TN           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | VA           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | WV           | 0%        | 0%              | 0%               | 0%                | 0%              | 0%        |
|                                | <b>Total</b> | <b>0%</b> | <b>0%</b>       | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>0%</b> |
| <b>Grand Total</b>             |              | <b>0%</b> | <b>0%</b>       | <b>-75%</b>      | <b>-68%</b>       | <b>0%</b>       | <b>0%</b> |

As indicated above, for the Base F 2002 base year inventory, data for all or portions of seven VISTAS States were replaced with corresponding data from recent (as of the fall of 2004) CERR submissions for 2002. Before replacing these data, however, an analysis of the CERR data was performed to ensure consistency with VISTAS inventory methods. It should perhaps also be noted that three of the CERR datasets provided for the Base F 2002 base year inventory (specifically those for Tennessee, Virginia, and West Virginia) included both annual and daily emissions data. Only the annual data were used. Daily values were removed.



Several important observations resulted from this analysis. First, it was clear that all of the CERR data continued to rely on the inaccurate aircraft PM estimation approach employed for the initial 2002 base year inventory. Therefore, an identical aircraft PM replacement procedure as described above for updating the initial 2002 base year inventory was undertaken for CERR supplied data. As a result, the CERR data for *all* VISTAS States has been modified for inclusion in the Base F 2002 VISTAS base year inventory due to PM replacement procedures.

As was the case with the initial VISTAS 2002 base year inventory, there were a substantial number of aircraft NO<sub>x</sub> records without corresponding PM records, so that the number of recalculated PM records added to the CERR dataset is greater than the number of PM records removed. The aggregated CERR inventory data, reflecting data for all or parts of seven States, consisted of 13,656 records, of which 1,211 were aircraft NO<sub>x</sub> records. However, the number of corresponding aircraft PM records was 662 (662 PM<sub>10</sub> records and 662 PM<sub>2.5</sub> records). This imbalance was distributed as follows:

**Table 1.3-12 CERR Aircraft NO<sub>x</sub> Records with No Corresponding PM Record.**

| Aircraft Type             | Georgia  | Tennessee | Virginia   | Total      |
|---------------------------|----------|-----------|------------|------------|
| Military Aircraft         |          |           | 136        | 136        |
| Commercial Aircraft       |          | 4         | 136        | 140        |
| General Aviation Aircraft | 1        |           | 136        | 137        |
| Air Taxi Aircraft         |          |           | 136        | 136        |
| <b>Aggregate</b>          | <b>1</b> | <b>4</b>  | <b>544</b> | <b>549</b> |

From this tabulation, it is clear that virtually the entire imbalance is associated with the Virginia CERR submission, with minor imbalances in Georgia and Tennessee. Of the 549 unmatched NO<sub>x</sub> records, 461 were records for which the reported emission rate was zero. Therefore, even though the associated PM records were missing, the overall inventory was not affected. However, the 88 missing records for which NO<sub>x</sub> emissions were non-zero do impact PM emission estimates for the overall inventory.

Replacement aircraft PM records (both PM<sub>10</sub> and PM<sub>2.5</sub>) were generated for the CERR dataset using procedures identical to those described above for the updated initial 2002 base year inventory.

Further analysis revealed that the CERR data for Virginia included only VOC, CO, and NO<sub>x</sub> emissions for all aircraft, locomotives, and non-recreational marine vessels. Since SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> records are included in the 2002 VISTAS inventory, an estimation method was developed for these emission species and applied to the Virginia CERR data. For PM, the



developed methodology was only employed for locomotive and marine vessel data since aircraft PM was estimated using the PM-to-NO<sub>x</sub> ratio methodology described above.

Consideration was given to simply adding the Virginia SO<sub>2</sub> and non-aircraft PM records from the initial 2002 VISTAS inventory dataset, but it is very unlikely that either the source distribution or associated emission rates are identical across the CERR and initial VISTAS inventories. This was confirmed through a comparative analysis of dataset CO records. Therefore, an estimation methodology was developed using Virginia source-specific SO<sub>2</sub>/CO, PM<sub>10</sub>/CO, and PM<sub>2.5</sub>/PM<sub>10</sub> ratios from the initial 2002 base year VISTAS inventory. The calculated ratios were then applied to the source-specific CERR CO emission estimates to derive associated source-specific SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions for the Base F inventory.

Initially, the development of the emissions ratios from the initial 2002 base year inventory was performed at the State (i.e., Virginia), county, and SCC level of detail. However, it readily became clear that there were substantial inconsistencies in ratios for identical SCCs across counties. For example, in one county, the SO<sub>2</sub>/CO ratio might be 0.2, while in the next county it would be 2.0. Since the sources in question are virtually identical (e.g., diesel locomotives) and since the fueling infrastructure for these large non-road equipment sources is regional as opposed to local in nature, such variations in emission rates are not realistic. Therefore, a more aggregated approach was employed in which SCC-specific emission ratios were developed for the State as a whole. Through this approach county-to-county variation in emission ratios is eliminated, but the underlying variation in CO emissions does continue to influence the resulting aggregate emission estimates. The applied emission ratios are as follows:

**Table 1.3-13 Calculated Emission Ratios for VA.**

| Source                     | SCC        | SO <sub>2</sub> /CO | PM <sub>10</sub> /CO | PM <sub>2.5</sub> /CO   | PM <sub>2.5</sub> /PM <sub>10</sub> |
|----------------------------|------------|---------------------|----------------------|---|-------------------------------------|
| Military Aircraft          | 2275001000 | 0.0215              |                      |   |                                     |
| Commercial Aircraft        | 2275020000 | 0.3292              |                      | <i>Emissions estimated using<br/>PM-to-NO<sub>x</sub> ratios as<br/>described previously.</i> |                                     |
| General Aviation Aircraft  | 2275050000 | 0.0002              |                      |   |                                     |
| Air Taxi Aircraft          | 2275060000 | 0.0015              |                      |   |                                     |
| Aircraft Refueling         | 2275900000 | 0.0000              | 0.0000               | 0.0000  |                                     |
| Diesel Commercial Marine   | 2280002000 | 0.3697              | 0.3434               | 0.3157  | 0.92                                |
| Residual Commercial Marine | 2280003000 | 0.3697              | 0.3434               | 0.3157  | 0.92                                |
| Diesel Military Marine     | 2283002000 | 0.2422              | 0.2248               | 0.2068  | 0.92                                |
| Line Haul Locomotives      | 2285002005 | 3.2757              | 1.2999               | 1.1696  | 0.90                                |
| Yard Locomotives           | 2285002010 | 2.2908              | 1.2461               | 1.1205  | 0.90                                |



It is important to recognize that the inconsistency of emissions ratios across Virginia counties for sources of virtually identical design, which utilize a regional rather than local fueling infrastructure, has potential implications for other VISTAS States. There is no immediately obvious reason to believe that such inconsistencies would be isolated to Virginia.

One final revision to the CERR dataset was undertaken as part of the Base F effort, and that was the removal of two records for unpaved airstrip particulate (SCC 2275085000) in Alabama. Otherwise identical records for these emissions were reported both in terms of filterable and primary particulate. The filterable particulate records were removed as all other particulate emissions in the VISTAS inventories are in terms of primary particulate. It is also perhaps worth noting that a series of aircraft refueling records (SCC 2275900000) for Virginia were left in place, even though typically such emissions would be reported under SCC 2501080XXX in the area source inventory. If additional VISTAS aircraft refueling emissions are reported under SCC 2501080XXX, then it may be desirable to recode these records.

Finally, data for areas of the VISTAS region not represented in the CERR dataset were added to the CERR data by extracting the appropriate records from the initial 2002 base year inventory (with revisions for aircraft PM to NO<sub>x</sub> ratios). Specifically, records applicable to the States of Florida, Kentucky, South Carolina, and the Tennessee counties of Davidson, Hamilton, Knox, and Shelby were extracted from the revised initial 2002 inventory and added to the CERR dataset to establish the 2002 Base F inventory.

Following this aggregation, one last dataset revision was implemented to complete the development of the 2002 Base F inventory. As indicated in the introduction of this section, the initial 2002 base year emission estimates for Miami International Airport were determined to be excessive. Although the reason for this inaccuracy was not apparent, revised estimates for aircraft emissions in Miami-Dade County were obtained from Florida planners and used to overwrite the erroneous estimates. (Aircraft emission estimates were provided in an August 10, 2004 e-mail transmittal from Bruce Coward of Miami-Dade County to Martin Costello of the Florida Department of Environmental Protection.)

Table 1.3-14 presents a summary of the resulting Base F VISTAS 2002 base year inventory estimates for aircraft, locomotives, and non-recreational marine vessels. Table 1.3-15 provides a comparison of the Base F 2002 base year inventory estimates to those of the initial 2002 base year inventory. As indicated, total emissions for VOC, CO, NO<sub>x</sub>, and SO<sub>2</sub> are generally within 10 percent, but final PM emissions are reduced by 70-80 percent due to the approximate 90 percent reductions in aircraft PM estimates. In addition, the significant changes in Georgia aircraft emissions are due to the CERR correction of Atlanta Hartsfield International Airport emissions, which were significantly underestimated in the initial 2002 base year inventory. The



reduction in Florida aircraft emissions due to the correction of Miami International estimates is also apparent.

Lastly, Table 1.3-16 provides a direct comparison of emission estimates from the initial and Base F 2002 base year inventories for all 16 VISTAS region airports with estimated annual aircraft NO<sub>x</sub> emissions of 200 tons or greater (as identified at the conclusion of the Base F revisions).<sup>3</sup> The table entries are sorted in order of decreasing NO<sub>x</sub> and once again, the dramatic reduction in PM emissions is evident. However, in addition, the appropriate reversal of the relationship between Atlanta's Hartsfield and Miami International Airport is also depicted. As a rough method of quality assurance, Table 1.3-15 also includes a *gross* estimate of expected airport NO<sub>x</sub> emissions using detailed NO<sub>x</sub> estimates developed for Tucson International Airport in conjunction with the ratio of local to Tucson LTOs. (The Tucson NO<sub>x</sub> estimates are revised to reflect a standard LTO cycle rather than the Tucson-specific LTO cycle. This should provide for a more realistic comparison to VISTAS estimates.) This is not meant to serve as anything other than a crude indicator of the propriety of the developed VISTAS estimates, and it is clear that the range of estimated-to-expected NO<sub>x</sub> emissions has been substantially narrowed in the Base F 2002 base year inventory. Whereas estimated-to-expected ratios varied from about 0.2 to over 3.5 in the initial 2002 base year inventory, the range of variation is tightened on both ends, from about 0.5 to 1.75 for the Base F 2002 base year inventory. In effect, all estimates are now within a factor of two of the expected estimates, which is quite reasonable given likely variation in local and standard LTO cycles and variations in aircraft fleet mix across airports.

It is perhaps important to note that some shifting in county emissions assignments is evident between the initial and Base F 2002 base year aircraft inventories. For example, for the initial 2002 base year inventory, Atlanta Hartsfield estimates were assigned to Fulton County (FIP 13121), while they are assigned to Clayton County (FIP 13063) for the Base F 2002 base year inventory. Similarly, Dulles International Airport emissions were assigned solely to Fairfax County, Virginia (FIP 51059) in the initial 2002 base year inventory, but are split between Fairfax and Loudoun County (FIP 51107) for Base F. Such shifts reflect local planner decision-making and are not an artifact of the revisions described above.

---

<sup>3</sup> Subsequent revisions performed for Base G result in the addition of the Cincinnati/Northern Kentucky International Airport to the group of airports with aircraft operations generating at least 200 tons of NO<sub>x</sub>. These revisions are discussed below, including the addition of an appropriately modified version of the aircraft emissions table.



**Table 1.3-14 Base F 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions (tons/year)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 3,787          | 175             | 226              | 87                | 17              | 196           |
|                                | FL           | 25,431         | 8,891           | 2,424            | 2,375             | 800             | 3,658         |
|                                | GA           | 6,622          | 5,372           | 1,475            | 1,446             | 451             | 443           |
|                                | KY           | 2,666          | 657             | 179              | 175               | 63              | 263           |
|                                | MS           | 1,593          | 140             | 44               | 43                | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 419              | 411               | 148             | 613           |
|                                | SC           | 6,505          | 515             | 409              | 401               | 88              | 863           |
|                                | TN           | 7,251          | 2,766           | 734              | 719               | 235             | 943           |
|                                | VA           | 9,763          | 2,756           | 1,137            | 1,115             | 786             | 2,529         |
|                                | WV           | 1,178          | 78              | 25               | 24                | 8               | 66            |
|                                | <b>Total</b> | <b>70,884</b>  | <b>22,899</b>   | <b>7,072</b>     | <b>6,797</b>      | <b>2,607</b>    | <b>9,670</b>  |
| Commercial<br>Marine<br>(2280) | AL           | 1,196          | 9,218           | 917              | 844               | 3,337           | 737           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,875           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,688          | 43,233          | 1,903            | 1,751             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 3,624          | 27,555          | 1,217            | 1,120             | 4,974           | 860           |
|                                | VA           | 972            | 2,775           | 334              | 307               | 359             | 483           |
|                                | WV           | 1,528          | 11,586          | 487              | 448               | 525             | 362           |
|                                | <b>Total</b> | <b>28,207</b>  | <b>209,972</b>  | <b>9,911</b>     | <b>9,118</b>      | <b>36,275</b>   | <b>7,413</b>  |
| Military Marine<br>(2283)      | VA           | 110            | 313             | 25               | 23                | 27              | 48            |
|                                | <b>Total</b> | <b>110</b>     | <b>313</b>      | <b>25</b>        | <b>23</b>         | <b>27</b>       | <b>48</b>     |
| Locomotives<br>(2285)          | AL           | 3,490          | 26,339          | 592              | 533               | 1,446           | 1,354         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,725          | 27,453          | 682              | 614               | 1,667           | 1,086         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 2,626          | 25,627          | 633              | 570               | 1,439           | 1,041         |
|                                | VA           | 1,186          | 11,882          | 1,529            | 1,375             | 3,641           | 492           |
|                                | WV           | 1,311          | 13,224          | 329              | 296               | 808             | 517           |
|                                | <b>Total</b> | <b>19,611</b>  | <b>187,764</b>  | <b>5,833</b>     | <b>5,248</b>      | <b>14,066</b>   | <b>7,777</b>  |
| <b>Grand Total</b>             |              | <b>118,812</b> | <b>420,948</b>  | <b>22,841</b>    | <b>21,186</b>     | <b>52,976</b>   | <b>24,908</b> |



**Table 1.3-15 Change in 2002 Emissions, Base F Inventory Relative to Initial Inventory**

| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC         |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|-------------|
| Aircraft<br>(2275)             | AL           | 0%          | 0%              | -67%             | -82%              | 0%              | 0%          |
|                                | FL           | -11%        | -26%            | -95%             | -93%              | -24%            | -1%         |
|                                | GA           | +109%       | +442%           | -62%             | -47%              | +379%           | +26%        |
|                                | KY           | 0%          | 0%              | -93%             | -90%              | 0%              | 0%          |
|                                | MS           | 0%          | 0%              | -92%             | -89%              | 0%              | 0%          |
|                                | NC           | 0%          | 0%              | -93%             | -90%              | 0%              | 0%          |
|                                | SC           | 0%          | 0%              | -9%              | +29%              | 0%              | 0%          |
|                                | TN           | +6%         | +4%             | -91%             | -87%              | +4%             | +2%         |
|                                | VA           | -45%        | -51%            | -92%             | -89%              | +236%           | -22%        |
|                                | WV           | 0%          | 0%              | -92%             | -89%              | 0%              | 0%          |
|                                | <b>Total</b> | <b>-9%</b>  | <b>-6%</b>      | <b>-92%</b>      | <b>-88%</b>       | <b>+34%</b>     | <b>-6%</b>  |
| Commercial<br>Marine<br>(2280) | AL           | +0%         | +0%             | +0%              | +0%               | +0%             | +0%         |
|                                | FL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | GA           | +0%         | +0%             | +0%              | +0%               | +0%             | +0%         |
|                                | KY           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | MS           | +0%         | +0%             | +0%              | +0%               | +0%             | +0%         |
|                                | NC           | +0%         | +0%             | +0%              | +0%               | +0%             | +0%         |
|                                | SC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | TN           | -12%        | -12%            | -12%             | -12%              | -14%            | -12%        |
|                                | VA           | -19%        | -19%            | -64%             | -64%              | -89%            | -19%        |
|                                | WV           | -27%        | -27%            | -27%             | -27%              | -27%            | -27%        |
|                                | <b>Total</b> | <b>-4%</b>  | <b>-4%</b>      | <b>-9%</b>       | <b>-9%</b>        | <b>-10%</b>     | <b>-5%</b>  |
| Military Marine<br>(2283)      | VA           | -19%        | -19%            | -12%             | -12%              | -12%            | -19%        |
|                                | <b>Total</b> | <b>-19%</b> | <b>-19%</b>     | <b>-12%</b>      | <b>-12%</b>       | <b>-12%</b>     | <b>-19%</b> |
| Locomotives<br>(2285)          | AL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | FL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | GA           | +3%         | +3%             | +3%              | +3%               | +3%             | +3%         |
|                                | KY           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | MS           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | NC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | SC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%          |
|                                | TN           | -42%        | -43%            | -43%             | -43%              | -46%            | -42%        |
|                                | VA           | -38%        | -39%            | +9%              | +9%               | +6%             | -38%        |
|                                | WV           | +19%        | +19%            | +19%             | +19%              | +19%            | +19%        |
|                                | <b>Total</b> | <b>-11%</b> | <b>-11%</b>     | <b>-5%</b>       | <b>-5%</b>        | <b>-6%</b>      | <b>-11%</b> |
| <b>Grand Total</b>             |              | <b>-8%</b>  | <b>-7%</b>      | <b>-77%</b>      | <b>-71%</b>       | <b>-7%</b>      | <b>-7%</b>  |



**Table 1.3-16 Base F Comparison of Aircraft Emissions**  
**(Airports with Aircraft NO<sub>x</sub> > 200 tons per year)**

| Airport                                 | FIP   | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC        | Approx. LTOs | Predicted NO <sub>x</sub> | VISTAS to Predicted |
|---|-------|-------------|-----------------|------------------|-------------------|-----------------|------------|--------------|---------------------------|---------------------|
| <i>Initial 2002 Base Year Inventory</i> |       |             |                 |                  |                   |                 |            |              |                           |                     |
| Miami                                   | 12086 | 9,757       | 5,997           | 23,706           | 16,357            | 525             | 1,641      | 150,000      | 1,680                     | 3.57                |
| Orlando                                 | 12095 | 3,456       | 2,170           | 8,578            | 5,919             | 204             | 642        | 150,000      | 1,680                     | 1.29                |
| Memphis                                 | 47157 | 3,462       | 1,934           | 7,645            | 5,275             | 185             | 603        | 125,000      | 1,400                     | 1.38                |
| Reagan                                  | 51013 | 3,892       | 1,806           | 7,138            | 4,925             | 164             | 302        | 100,000      | 1,120                     | 1.61                |
| Hampton                                 | 51650 | 2,690       | 1,705           | 0                | 0                 | 0               | 611        | Military     |                           |                     |
| Dulles                                  | 51059 | 2,032       | 1,330           | 5,246            | 3,620             | 0               | 272        | 75,000       | 840                       | 1.58                |
| Orlando-Sanford                         | 12117 | 3,615       | 1,225           | 4,837            | 3,337             | 100             | 351        |              |                           |                     |
| Atlanta                                 | 13121 | 1,457       | 913             | 3,608            | 2,490             | 86              | 274        | 420,000      | 4,704                     | 0.19                |
| Fort Lauderdale                         | 12011 | 1,930       | 809             | 3,196            | 2,206             | 75              | 257        | 75,000       | 840                       | 0.96                |
| Charlotte                               | 37119 | 1,643       | 788             | 3,113            | 2,148             | 75              | 255        | 150,000      | 1,680                     | 0.47                |
| Tampa                                   | 12057 | 1,399       | 785             | 3,101            | 2,140             | 74              | 240        | 75,000       | 840                       | 0.93                |
| Nashville                               | 47037 | 1,819       | 653             | 40               | 28                | 33              | 239        | 60,000       | 672                       | 0.97                |
| Raleigh                                 | 37183 | 1,584       | 592             | 2,338            | 1,613             | 56              | 204        | 75,000       | 840                       | 0.70                |
| Louisville                              | 21111 | 1,073       | 468             | 1,851            | 1,277             | 45              | 155        | 60,000       | 672                       | 0.70                |
| Jacksonville                            | 12031 | 871         | 325             | 1,284            | 886               | 31              | 112        | 30,000       | 336                       | 0.97                |
| Palm Beach                              | 12099 | 1,156       | 226             | 0                | 0                 | 1               | 132        | 30,000       | 336                       | 0.67                |
| Aggregate                               |       | 41,836      | 21,724          | 75,682           | 52,220            | 1,655           | 6,290      |              |                           | 0.19-3.57           |
| <i>Base F 2002 Base Year Inventory</i>  |       |             |                 |                  |                   |                 |            |              |                           |                     |
| Atlanta                                 | 13063 | 4,121       | 5,288           | 1,435            | 1,406             | 443             | 337        | 420,000      | 4,704                     | 1.12                |
| Miami                                   | 12086 | 6,670       | 2,933           | 805              | 789               | 274             | 1,596      | 150,000      | 1,680                     | 1.75                |
| Orlando                                 | 12095 | 3,456       | 2,170           | 568              | 556               | 204             | 642        | 150,000      | 1,680                     | 1.29                |
| Memphis                                 | 47157 | 3,462       | 1,934           | 506              | 495               | 185             | 603        | 125,000      | 1,400                     | 1.38                |
| Orlando-Sanford                         | 12117 | 3,615       | 1,225           | 338              | 332               | 100             | 351        |              |                           |                     |
| Fort Lauderdale                         | 12011 | 1,930       | 809             | 217              | 212               | 75              | 257        | 75,000       | 840                       | 0.96                |
| Charlotte                               | 37119 | 1,643       | 788             | 206              | 202               | 75              | 255        | 150,000      | 1,680                     | 0.47                |
| Tampa                                   | 12057 | 1,399       | 785             | 206              | 202               | 74              | 240        | 75,000       | 840                       | 0.93                |
| Nashville                               | 47037 | 1,819       | 653             | 170              | 166               | 33              | 239        | 60,000       | 672                       | 0.97                |
| Reagan                                  | 51013 | 1,269       | 635             | 171              | 168               | 193             | 97         | 100,000      | 1,120                     | 0.57                |
| Dulles 1                                | 51107 | 1,807       | 595             | 164              | 161               | 252             | 153        | 37,500       | 420                       | 1.42                |
| Raleigh                                 | 37183 | 1,584       | 592             | 156              | 153               | 56              | 204        | 75,000       | 840                       | 0.70                |
| Dulles 2                                | 51059 | 1,095       | 591             | 156              | 153               | 252             | 115        | 37,500       | 420                       | 1.41                |
| Hampton                                 | 51650 | 858         | 535             | 471              | 461               | 18              | 305        | Military     |                           |                     |
| Louisville                              | 21111 | 1,073       | 468             | 123              | 121               | 45              | 155        | 60,000       | 672                       | 0.70                |
| Jacksonville                            | 12031 | 871         | 325             | 87               | 85                | 31              | 112        | 30,000       | 336                       | 0.97                |
| Palm Beach                              | 12099 | 1,156       | 226             | 59               | 58                | 1               | 132        | 30,000       | 336                       | 0.67                |
| Aggregate                               |       | 37,829      | 20,550          | 5,838            | 5,721             | 2,312           | 5,793      |              |                           | 0.47-1.75           |
| <b>Net Change</b>                       |       | <b>-10%</b> | <b>-5%</b>      | <b>-92%</b>      | <b>-89%</b>       | <b>+40%</b>     | <b>-8%</b> |              |                           |                     |

**Note:** For the Base F inventory, Dulles International Airport emissions are split between two Virginia counties.

Predicted NO<sub>x</sub> is based on the ratio of airport LTOs to test airport (Tucson International Airport) LTOs and NO<sub>x</sub>.

This is not a rigorous comparison, but rather an approximate indicator of expected magnitude.



**Base G Revisions:**

Further revisions to the 2002 base year emissions inventory were implemented in response to additional state data submittals in the spring of 2006. The inventories developed through the Base F revision process (as described above) served as the starting point for the 2006 revisions. Thus, unless otherwise indicated below, all documented Base F revisions continue to apply to the Base G-revised 2002 base year inventory.

As part of the Base G review and update process, Virginia regulators provided 443 updated emission records for aircraft. These records reflected revisions to aircraft VOC, CO, and NO<sub>x</sub>, and in a few cases SO<sub>2</sub>, emissions records that were already in the Base F VISTAS 2002 inventory (as opposed to the addition of previously unreported data). The specific revisions broke down as follows:

**Table 1.3-17 Base G VA Aircraft Records Updates**

| Aircraft Type             | VOC | CO  | NO <sub>x</sub> | SO <sub>2</sub> | Total |
|---------------------------|-----|-----|-----------------|-----------------|-------|
| Military Aircraft         | 9   | 9   | 9               | 1               | 28    |
| Commercial Aircraft       | 12  | 12  | 12              | 17              | 53    |
| General Aviation Aircraft | 65  | 66  | 66              | 0               | 197   |
| Air Taxi Aircraft         | 56  | 56  | 53              | 0               | 165   |
| Aggregate                 | 142 | 143 | 140             | 18              | 443   |

Emissions values for each of the 443 records in the Base F 2002 VISTAS inventory were updated for Base G to reflect the revised data. However, as described above for the Base F revisions, all aircraft SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions in Virginia are estimated on the basis of CO (in the case of SO<sub>2</sub>) and NO<sub>x</sub> emissions (in the cases of PM<sub>10</sub> and PM<sub>2.5</sub>). Therefore, since Virginia regulators did not provide updated SO<sub>2</sub> emissions for all updated CO emissions records, or updated PM<sub>10</sub> or PM<sub>2.5</sub> emissions for all updated NO<sub>x</sub> emissions records, it was necessary to re-estimate aircraft SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions in all cases where updated CO or NO<sub>x</sub> emissions were provided for Base G (and explicit SO<sub>2</sub> and/or PM<sub>10</sub> and PM<sub>2.5</sub> emissions were not).

The procedure used to estimate the SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions revisions was identical to that described above for the Base F inventory revisions, except that revised SO<sub>2</sub>-to-CO emissions ratios were calculated for commercial aircraft, where 12 pairs of revised CO and SO<sub>2</sub> emissions estimates were available. Although a single pair of revised CO and SO<sub>2</sub> emissions records was available for military aircraft, this was deemed an insufficient sample with which to replace the military aircraft SO<sub>2</sub>-to-CO emissions ratios previously calculated in Base F. However, it is worth noting that the SO<sub>2</sub>-to-CO emissions ratio for the revised military aircraft emissions pair



was within 16 percent of the previously calculated ratio, so any error associated with retention of the Base F ratio will be minor. Table 1.3-18 presents the emissions ratios.

**Table 1.3-18 Calculated Base G Emission Ratios for VA.**

| Source                    | SCC        | SO <sub>2</sub> /CO<br>(fall 2004) | SO <sub>2</sub> /CO<br>(spring 2006) | SO <sub>2</sub> /CO<br>(used in 2006) | PM <sub>10</sub> /NO <sub>x</sub> | PM <sub>2.5</sub> /PM <sub>10</sub> |
|---------------------------|------------|------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------|
| Military Aircraft         | 2275001000 | 0.0215                             | 0.0180                               | 0.0215                                | 0.88                              | 0.98                                |
| Commercial Aircraft       | 2275020000 | 0.3292                             | 0.0696                               | 0.0696                                | 0.26                              | 0.98                                |
| General Aviation Aircraft | 2275050000 | 0.00016                            | n/a                                  | 0.00016                               | 1.9                               | 0.98                                |
| Air Taxi Aircraft         | 2275060000 | 0.0015                             | n/a                                  | 0.0015                                | 0.5                               | 0.98                                |

Application of the SO<sub>2</sub>-to-CO emissions ratios to the 130 revised aircraft CO records, for which no corresponding SO<sub>2</sub> emission revisions were provided, resulted in an additional 130 aircraft SO<sub>2</sub> emission records updates for Virginia. Similarly, application of the PM<sub>10</sub>-to-NO<sub>x</sub> emissions ratios to the 140 revised aircraft NO<sub>x</sub> records for which no corresponding PM<sub>10</sub> emission revisions were provided, resulted in an additional 140 aircraft PM<sub>10</sub> emission records updates for Virginia. Application of the PM<sub>2.5</sub>-to-PM<sub>10</sub> emissions ratios to the 140 revised aircraft PM<sub>10</sub> records resulted in an additional 140 aircraft PM<sub>2.5</sub> emission records updates for Virginia. Thus, in total, 853 (443+130+140+140) Virginia aircraft emissions records were updated for Base G.

Also as part of the Base G review and update process, Alabama regulators provided 178 updated PM emission records for aircraft (89 records for PM<sub>10</sub> and 89 records for PM<sub>2.5</sub>), 42 additional emissions records for locomotives (14 records for VOC, 14 records for CO, and 14 records for NO<sub>x</sub>), and 179 additional emission records for aircraft (30 records for VOC, 30 records for CO, 30 records for NO<sub>x</sub>, 29 records for SO<sub>2</sub>, 30 records for PM<sub>10</sub>, and 30 records for PM<sub>2.5</sub>). After review, it was determined that the 178 updated PM emission records for aircraft actually reflected the original (overestimated) aircraft PM data that was replaced universally throughout the VISTAS region for Base F. Implementing these latest revisions would, in effect, “undo” the Base F aircraft PM revisions. Following discussions with Alabama regulators, it was determined that the 178 aircraft PM records would not be updated for the Base G revisions.

The 42 additional emissions records for locomotives were determined to correspond exactly to existing SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions records already in the Base F VISTAS 2002 inventory. It is not clear why these existing records contained no corresponding data for VOC, CO, and NO<sub>x</sub>, but those data are now reflected through the additional 42 records that have now been added to the Base G 2002 VISTAS inventory for Alabama.

After examining the 179 additional aircraft emissions records in conjunction with Alabama regulators, it was determined that 17 of the records (commercial aircraft records in Dale,



Limestone, and Talladega counties) were erroneous and should be excluded from the update. The remaining 162 records reflected additional general aviation, air taxi, and military aircraft activity in 20 counties and were specifically comprised of 27 records each for VOC, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. There were no further issues with the VOC, CO, NO<sub>x</sub>, and SO<sub>2</sub> records and these were added to the Base G 2002 VISTAS inventory without change. It was, however, apparent that the PM<sub>10</sub> and PM<sub>2.5</sub> records reflected an overestimation of aircraft PM similar to that which was previously corrected throughout the VISTAS region for Base F (as documented above). To overcome this overestimation, the additional aircraft PM<sub>10</sub> and PM<sub>2.5</sub> records provided by Alabama regulators were replaced with revised emission estimates developed on the basis of the PM<sub>10</sub>-to-NO<sub>x</sub> and PM<sub>2.5</sub>-to-PM<sub>10</sub> ratios documented under the Base F revisions above. So although 27 aircraft PM<sub>10</sub> records and 27 aircraft PM<sub>2.5</sub> records were added to the 2002 Alabama inventory, they reflected different emissions values than those provided directly by Alabama regulators.

In total, 204 additional emissions records (42 for locomotives and 162 for aircraft) were added to the Base G 2002 Alabama inventory.

Finally, as part of the Base G review and update process, Kentucky regulators provided 12 updated aircraft emission records for Boone County, to correct previously underestimated aircraft emissions associated with the Cincinnati/Northern Kentucky International Airport. VOC, CO, and NO<sub>x</sub> emissions data were provided for military, commercial, general aviation, and air taxi aircraft. No associated updates for SO<sub>2</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub> emissions were provided. Corresponding PM<sub>10</sub> emission estimates were developed by applying the PM<sub>10</sub>-to-NO<sub>x</sub> ratios presented in Table 1.3-17 above to the updated NO<sub>x</sub> emission estimates. PM<sub>2.5</sub> emission estimates were developed by applying the PM<sub>2.5</sub>-to-PM<sub>10</sub> ratios from that same table to the estimated PM<sub>10</sub> emissions. SO<sub>2</sub> emission estimates were developed by applying the SO<sub>2</sub>-to-PM<sub>10</sub> ratios developed from the older data (i.e., the data being replaced) for Boone County aircraft to the updated PM<sub>10</sub> emissions. Thus, a total of 24 inventory records for Kentucky were updated (VOC, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for four aircraft types).

Upon implementation of the universe of updates, 877 existing emission records were revised (853 in Virginia and 24 in Kentucky) and 204 additional emission records (all in Alabama) were added to the 2002 VISTAS inventory. The total number of aircraft, locomotive, and commercial marine inventory records thus changed from 22,838 records in Base F to 23,042 records in Base G.

Table 1.3-19 presents a summary of the resulting Base G VISTAS 2002 base year inventory estimates for aircraft, locomotives, and non-recreational marine vessels. Table 1.3-20 provides a comparison of the Base G 2002 base year inventory estimates to those of the Base F 2002 base



year inventory. As indicated, total emissions for VOC, CO, NO<sub>x</sub>, and SO<sub>2</sub> are generally within about 5 percent, with changes restricted to the states of Alabama, Kentucky, and Virginia.

Lastly, Table 1.3-21 provides an updated comparison of emission estimates from the Base F and Base G 2002 base year inventories for all 17 VISTAS region airports with estimated annual aircraft NO<sub>x</sub> emissions of 200 tons or greater. As compared to Table 1.3-16, the table reflects the Base G addition of the Cincinnati/Northern Kentucky International Airport. Aircraft emission estimates for the other 16 airports are unchanged from their Base F values.

**Table 1.3-19 Base G-Revised 2002 Base Year Aircraft, Locomotive, and Non-Recreational Marine Emissions (tons/year)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 5,595          | 185             | 238              | 99                | 18              | 276           |
|                                | FL           | 25,431         | 8,891           | 2,424            | 2,375             | 800             | 3,658         |
|                                | GA           | 6,620          | 5,372           | 1,475            | 1,446             | 451             | 443           |
|                                | KY           | 5,577          | 925             | 251              | 246               | 88              | 397           |
|                                | MS           | 1,593          | 140             | 44               | 43                | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 419              | 411               | 148             | 613           |
|                                | SC           | 6,505          | 515             | 409              | 401               | 88              | 863           |
|                                | TN           | 7,251          | 2,766           | 734              | 719               | 235             | 943           |
|                                | VA           | 11,873         | 3,885           | 2,010            | 1,970             | 272             | 2,825         |
|                                | WV           | 1,178          | 78              | 25               | 24                | 8               | 66            |
|                                | <b>Total</b> | <b>77,712</b>  | <b>24,305</b>   | <b>8,029</b>     | <b>7,734</b>      | <b>2,121</b>    | <b>10,179</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,196          | 9,218           | 917              | 844               | 3,337           | 737           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,875           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,688          | 43,233          | 1,903            | 1,751             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 3,624          | 27,555          | 1,217            | 1,120             | 4,974           | 860           |
|                                | VA           | 972            | 2,775           | 334              | 307               | 359             | 483           |
|                                | WV           | 1,528          | 11,586          | 487              | 448               | 525             | 362           |
|                                | <b>Total</b> | <b>28,207</b>  | <b>209,972</b>  | <b>9,911</b>     | <b>9,118</b>      | <b>36,275</b>   | <b>7,413</b>  |
| Military Marine<br>(2283)      | VA           | 110            | 313             | 25               | 23                | 27              | 48            |
|                                | <b>Total</b> | <b>110</b>     | <b>313</b>      | <b>25</b>        | <b>23</b>         | <b>27</b>       | <b>48</b>     |
| Locomotives<br>(2285)          | AL           | 3,518          | 26,623          | 592              | 533               | 1,446           | 1,365         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,654          | 26,733          | 664              | 598               | 1,622           | 1,059         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 2,626          | 25,627          | 633              | 570               | 1,439           | 1,041         |
|                                | VA           | 1,186          | 11,882          | 1,529            | 1,375             | 3,641           | 492           |
|                                | WV           | 1,311          | 13,224          | 329              | 296               | 808             | 517           |
|                                | <b>Total</b> | <b>19,568</b>  | <b>187,328</b>  | <b>5,815</b>     | <b>5,232</b>      | <b>14,022</b>   | <b>7,761</b>  |
| <b>Grand Total</b>             |              | <b>125,597</b> | <b>421,918</b>  | <b>23,780</b>    | <b>22,107</b>     | <b>52,444</b>   | <b>25,401</b> |



**Table 1.3-20 Change in 2002 Emissions, Base G Inventory  
Relative to Base F Inventory**

| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC        |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|------------|
| Aircraft<br>(2275)             | AL           | +48%        | +6%             | +5%              | +14%              | +7%             | +41%       |
|                                | FL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | GA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | KY           | +109%       | +41%            | +40%             | +40%              | +41%            | +51%       |
|                                | MS           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | NC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | SC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | TN           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | VA           | +22%        | +41%            | +77%             | +77%              | -65%            | +12%       |
|                                | WV           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | <b>Total</b> | <b>+10%</b> | <b>+6%</b>      | <b>+14%</b>      | <b>+14%</b>       | <b>-19%</b>     | <b>+5%</b> |
| Commercial<br>Marine<br>(2280) | AL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | FL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | GA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | KY           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | MS           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | NC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | SC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | TN           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | VA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | WV           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | <b>Total</b> | <b>0%</b>   | <b>0%</b>       | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>0%</b>  |
| Military Marine<br>(2283)      | VA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | <b>Total</b> | <b>0%</b>   | <b>0%</b>       | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>0%</b>  |
| Locomotives<br>(2285)          | AL           | +1%         | +1%             | 0%               | 0%                | 0%              | +1%        |
|                                | FL           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | GA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | KY           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | MS           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | NC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | SC           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | TN           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | VA           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | WV           | 0%          | 0%              | 0%               | 0%                | 0%              | 0%         |
|                                | <b>Total</b> | <b>+0%</b>  | <b>+0%</b>      | <b>0%</b>        | <b>0%</b>         | <b>0%</b>       | <b>+0%</b> |
| <b>Grand Total</b>             |              | <b>+6%</b>  | <b>+0%</b>      | <b>+4%</b>       | <b>+4%</b>        | <b>-1%</b>      | <b>+2%</b> |



**Table 1.3-21 Base G Comparison of Aircraft Emissions**  
**(Airports with Aircraft NO<sub>x</sub> > 200 tons per year)**

| Airport                                | FIP   | CO         | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC        | Approx. LTOs | Predicted NO <sub>x</sub> | VISTAS to Predicted |
|--|-------|------------|-----------------|------------------|-------------------|-----------------|------------|--------------|---------------------------|---------------------|
| <i>Base F 2002 Base Year Inventory</i> |       |            |                 |                  |                   |                 |            |              |                           |                     |
| Atlanta                                | 13063 | 4,121      | 5,288           | 1,435            | 1,406             | 443             | 337        | 420,000      | 4,704                     | 1.12                |
| Miami                                  | 12086 | 6,670      | 2,933           | 805              | 789               | 274             | 1,596      | 150,000      | 1,680                     | 1.75                |
| Orlando                                | 12095 | 3,456      | 2,170           | 568              | 556               | 204             | 642        | 150,000      | 1,680                     | 1.29                |
| Memphis                                | 47157 | 3,462      | 1,934           | 506              | 495               | 185             | 603        | 125,000      | 1,400                     | 1.38                |
| Orlando-Sanford                        | 12117 | 3,615      | 1,225           | 338              | 332               | 100             | 351        |              |                           |                     |
| Fort Lauderdale                        | 12011 | 1,930      | 809             | 217              | 212               | 75              | 257        | 75,000       | 840                       | 0.96                |
| Charlotte                              | 37119 | 1,643      | 788             | 206              | 202               | 75              | 255        | 150,000      | 1,680                     | 0.47                |
| Tampa                                  | 12057 | 1,399      | 785             | 206              | 202               | 74              | 240        | 75,000       | 840                       | 0.93                |
| Nashville                              | 47037 | 1,819      | 653             | 170              | 166               | 33              | 239        | 60,000       | 672                       | 0.97                |
| Reagan                                 | 51013 | 1,269      | 635             | 171              | 168               | 193             | 97         | 100,000      | 1,120                     | 0.57                |
| Dulles 1                               | 51107 | 1,807      | 595             | 164              | 161               | 252             | 153        | 37,500       | 420                       | 1.42                |
| Raleigh                                | 37183 | 1,584      | 592             | 156              | 153               | 56              | 204        | 75,000       | 840                       | 0.70                |
| Dulles 2                               | 51059 | 1,095      | 591             | 156              | 153               | 252             | 115        | 37,500       | 420                       | 1.41                |
| Hampton                                | 51650 | 858        | 535             | 471              | 461               | 18              | 305        | Military     |                           |                     |
| Louisville                             | 21111 | 1,073      | 468             | 123              | 121               | 45              | 155        | 60,000       | 672                       | 0.70                |
| Jacksonville                           | 12031 | 871        | 325             | 87               | 85                | 31              | 112        | 30,000       | 336                       | 0.97                |
| Palm Beach                             | 12099 | 1,156      | 226             | 59               | 58                | 1               | 132        | 30,000       | 336                       | 0.67                |
| Cincinnati                             | 21015 | 467        | 144             | 38               | 37                | 14              | 54         | 50,000       | 560                       | 0.26                |
| Aggregate                              |       | 38,296     | 20,694          | 5,876            | 5,758             | 2,326           | 5,847      |              |                           | 0.26-1.75           |
| <i>Base G 2002 Base Year Inventory</i> |       |            |                 |                  |                   |                 |            |              |                           |                     |
| Atlanta                                | 13063 | 4,121      | 5,288           | 1,435            | 1,406             | 443             | 337        | 420,000      | 4,704                     | 1.12                |
| Miami                                  | 12086 | 6,670      | 2,933           | 805              | 789               | 274             | 1,596      | 150,000      | 1,680                     | 1.75                |
| Orlando                                | 12095 | 3,456      | 2,170           | 568              | 556               | 204             | 642        | 150,000      | 1,680                     | 1.29                |
| Memphis                                | 47157 | 3,462      | 1,934           | 506              | 495               | 185             | 603        | 125,000      | 1,400                     | 1.38                |
| Orlando-Sanford                        | 12117 | 3,615      | 1,225           | 338              | 332               | 100             | 351        |              |                           |                     |
| Fort Lauderdale                        | 12011 | 1,930      | 809             | 217              | 212               | 75              | 257        | 75,000       | 840                       | 0.96                |
| Charlotte                              | 37119 | 1,643      | 788             | 206              | 202               | 75              | 255        | 150,000      | 1,680                     | 0.47                |
| Tampa                                  | 12057 | 1,399      | 785             | 206              | 202               | 74              | 240        | 75,000       | 840                       | 0.93                |
| Nashville                              | 47037 | 1,819      | 653             | 170              | 166               | 33              | 239        | 60,000       | 672                       | 0.97                |
| Reagan                                 | 51013 | 1,269      | 635             | 171              | 168               | 193             | 97         | 100,000      | 1,120                     | 0.57                |
| Dulles 1                               | 51107 | 1,807      | 595             | 164              | 161               | 252             | 153        | 37,500       | 420                       | 1.42                |
| Raleigh                                | 37183 | 1,584      | 592             | 156              | 153               | 56              | 204        | 75,000       | 840                       | 0.70                |
| Dulles 2                               | 51059 | 1,095      | 591             | 156              | 153               | 252             | 115        | 37,500       | 420                       | 1.41                |
| Hampton                                | 51650 | 858        | 535             | 471              | 461               | 18              | 305        | Military     |                           |                     |
| Louisville                             | 21111 | 1,073      | 468             | 123              | 121               | 45              | 155        | 60,000       | 672                       | 0.70                |
| Cincinnati                             | 21015 | 3,378      | 411             | 110              | 107               | 39              | 187        | 50,000       | 560                       | 0.73                |
| Jacksonville                           | 12031 | 871        | 325             | 87               | 85                | 31              | 112        | 30,000       | 336                       | 0.97                |
| Palm Beach                             | 12099 | 1,156      | 226             | 59               | 58                | 1               | 132        | 30,000       | 336                       | 0.67                |
| Aggregate                              |       | 41,207     | 20,961          | 5,947            | 5,828             | 2,352           | 5,981      |              |                           | 0.47-1.75           |
| <b>Net Change</b>                      |       | <b>+8%</b> | <b>+1%</b>      | <b>+1%</b>       | <b>+1%</b>        | <b>+1%</b>      | <b>+2%</b> |              |                           |                     |

**Note:** For the revised inventory, Dulles International Airport emissions are split between two Virginia counties. Predicted NO<sub>x</sub> is based on the ratio of airport LTOs to test airport (Tucson International Airport) LTOs and NO<sub>x</sub>. This is not a rigorous comparison, but rather an approximate indicator of expected magnitude.



### 1.3.2.3 Emissions from NONROAD Model Sources in Illinois, Indiana, and Ohio

As part of the Base G update process, VISTAS requested that emissions estimates for 2002 be produced for the states of Illinois, Indiana, and Ohio. These estimates were to be produced at the same spatial (i.e., county level by SCC) and temporal resolution as estimates for the VISTAS region.

The requested estimates were produced by extracting a complete set of county-level input data applicable to each of the three states from the latest version of the EPA's NMIM (National Mobile Inventory Model) model. This included appropriate consideration of all non-default NMIM input files generated by the Midwest Regional Planning Organization (MRPO), as described below. These input data were then assembled into appropriate input files for the Final NONROAD2005 model and emission estimates were produced using the same procedure employed for the VISTAS region as part of the Base G updates.

A complete set of monthly input data was developed for each county in Illinois, Indiana, and Ohio by extracting data from the following NMIM database files (using the NMIM MySQL query browser):

county, countrysnfile, countyyear, countyyearmonth, countyyearmonthhour,  
gasoline, diesel, and natural gas

The database files:

countrysnfile, countyyear, countyyearmonth, and gasoline

were non-default database files provided to VISTAS by the MRPO, and are intended to reflect the latest planning data being used by MRPO modelers.

From these files, monthly data for gasoline vapor pressure, gasoline oxygen content, gasoline sulfur content, diesel sulfur content for land-based equipment, diesel sulfur content for marine-based equipment, natural gas sulfur content, minimum daily temperature, maximum daily temperature, and average daily temperature were developed. In addition, the altitude and Stage II refueling control status of each county, as well as the identity of the associated equipment population, activity, growth, allocation, and seasonal distribution files, was determined. These data were then assembled into Final NONROAD2005 input files on a seasonal basis, with monthly data being arithmetically averaged to produce seasonal equivalents as follows:

Winter = Average of December, January, and February  
Spring = Average of March, April, and May  
Summer = Average of June, July, and August,  
Fall = Average of September, October, and November



Unlike the VISTAS Base G approach, this approach results in the use of the following non-default data files during the Final NONROAD2005 modeling process:

**Table 1.3-22 Non-Default Files Used for MRPO Modeling**

| Data File                       | Illinois  | Indiana      | Ohio         |
|---------------------------------|---|--------------|--------------|
| Activity File                   | 1700002.act   | 1800002.act  | 3900002.act  |
| Growth File                     | 17000.grw   | 18000.grw    | 39000.grw    |
| Population File                 | 17000.pop   | 18000.pop    | 39000.pop    |
| Season File                     | 17000.sea   | 18000.sea    | 39000.sea    |
| Inboard Marine Allocation File  | 17000wib.alo  | 18000wib.alo | 39000wib.alo |
| Outboard Marine Allocation File | 17000wob.alo  | 18000wob.alo | 39000wob.alo |
| Specific Fuel Consumption       | MRPO-specific file provided by MRPO modelers (arbitrarily named "mrpoBSFC.emf" for this work) |              |              |

One compromise was made relative to the level of resolution that is available through the basic approach described above, that being the treatment of ambient temperature data. Because NMIM offers a unique temperature profile for every U.S. county -- developed by aggregating temperature data from included and surrounding weather stations on the basis of their distances from the county population centroid -- it is not possible to explicitly group counties with otherwise identical input streams. Ungrouped however, there would be 1,128 distinct input streams to be processed (102 Illinois counties plus 92 Indiana counties plus 88 Ohio counties at four seasons each), or over five times the number of files processed for the entire VISTAS region.

To surmount this problem and allow counties with similar temperature profiles to be grouped an approach was employed wherein counties were considered groupable if *all* temperature inputs<sup>4</sup> are within  $\pm 2$  °F of the corresponding group average. This criterion is quite stringent in that it results in less tolerant grouping than that employed for VISTAS modeling, which uses temperature data from the nearest meteorological station as opposed to "unique" meteorological

<sup>4</sup> Non-road temperature inputs used for county grouping are: winter minimum, spring minimum, summer minimum, fall minimum, winter maximum, spring maximum, summer maximum, fall maximum, winter average, spring average, summer average, and fall average.



data for each county. Under this approach, the actual deviation for grouped counties is *much* less than  $\pm 2^{\circ}$  F for the overwhelming majority of the 12 grouped temperature inputs.

In addition to the required temperature consistency, all other input data for counties to be grouped had to be identical for all four seasons. Using this criterion, Illinois emissions were modeled using 12 county groups, Indiana emissions were modeled using 9 county groups, and Ohio emissions were modeled using 10 county groups. Thus, 31 iterations of NONROAD2002 were required per season, as compared to the 53 iterations per season required for the VISTAS region.

It should be noted that a potential quality assurance issue was noted in assembling the NONROAD2005 input data for a number of Indiana counties. Specifically, the gasoline vapor pressure for most Indiana counties reflects a value of 9.0 psi in *all* spring, summer, fall, and winter months. This is likely to indicate a problem with the accuracy of the NMIM databases for these counties, but these data were used as defined for this work.

### **1.3.3      *Quality Assurance steps***

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, and to ensure that a full and complete inventory was developed for VISTAS. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the area source component of the 2002 base year revised:

1. All CERR and NIF format State supplied data submittals were run through EPA's Format and Content checking software.
2. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources.
3. Tier comparisons (by pollutant) were developed between the revised 2002 base year inventory and the initial base year inventory.
4. Data product summaries were provided to both the VISTAS Emission Inventory Technical Advisor and to Mobile Source SIWG representatives for review and comment. Changes based on these comments were implemented in the files.
5. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from 1.0 to 2.0. A minor change would cause a version number to go from 1.0 to 1.1. Minor changes resulting from largely editorial changes would result in a change from 1.00 to 1.01.



## **2.0 Projection Inventory Development**

### **2.1 Point Sources**

We used different approaches for different sectors of the point source inventory:

- For the EGUs, VISTAS relied primarily on the Integrated Planning Model<sup>®</sup> (IPM<sup>®</sup>) to project future generation as well as to calculate the impact of future emission control programs. The IPM results were adjusted based on S/L agency knowledge of planned emission controls at specific EGUs.
- For non-EGUs, we used recently updated growth and control data consistent with the data used in EPA's CAIR analyses, and supplemented these data with available S/L agency knowledge of planned emission controls or other changes at specific non-EGUs and updated fuel use forecast data for the U.S. Department of Energy.

For both sectors, we generated 2009 and 2018 inventories for a combined on-the-books (OTB) and on-the-way (OTW) control scenario. The OTB/OTW control scenario accounts for post-2002 emission reductions from promulgated and proposed non-EGU federal control programs as of July 1, 2004; the final Clean Air Interstate Rule (CAIR); and State, local, and site-specific control programs as of October 1, 2007. Section 2.1.1 discusses the EGU projection inventory development, while Section 2.1.2 discusses the non-EGU projection inventory development.

#### **2.1.1 EGU Emission Projections**

The following subsections discuss the following specific aspects of the development of the EGU projections. First, we present a chronology of the EGU development process and discuss key decisions in selecting the final methods for performing the emissions projections. Next, we describe the development of the final set of IPM runs that are included in the VISTAS Base G inventory. Next, we describe the process of transforming the IPM parsed files into NIF format. Fourth, we discuss the process for ensuring that units accounted for in IPM were not double-counted in the non-EGU inventory. Fifth, we describe the QA/QC checks that were made to ensure that the IPM results were properly incorporated into the VISTAS inventory. Sixth, we document the changes to the IPM results that S/L agencies specified they wanted included in the VISTAS inventory based on new information that were not accounted for in the IPM runs. Finally, we present summaries of the B&F projected EGU emissions by year, state, and pollutant.

##### **2.1.1.1 Chronology of the Development of EGU Projections**

At the beginning of the EGU inventory development process, VISTAS considered three options for developing the VISTAS 2009 and 2018 projection inventories for EGUs:



- Option 1 – Use the results of IPM modeling conducted in support of the proposed Clean Air Interstate Rule (CAIR) base and control case analyses as the starting point and refine the projections with readily available inputs from stakeholders; these IPM runs were conducted for 2010 and 2015, which VISTAS would use to represent projected emissions in 2009 and 2018 respectively.
- Option 2 – Use the VISTAS 2002 typical year as the starting point, apply growth factors from the Energy Information Administration, and refine future emission rates with stakeholder input regarding utilization rates, capacity, retirements, and new unit information.
- Option 3 – Use the results of a new round of IPM modeling sponsored by VISTAS and the Midwest Regional Planning Organization (MRPO). These runs incorporated VISTAS specific unit and regulation modified parameters, and generate results for 2009 and 2018 explicitly.

An additional consideration for each of the three options was the inclusion of emission projections developed by the Southern Company specifically for their units. Southern Company is a super-regional company which owns EGUs in Alabama, Florida, Georgia, and Mississippi and participates in VISTAS as an industry stakeholder. Southern Company used their energy budget forecast to project net generation and heat input for every existing and future Southern Company EGU for the years 2009 and 2018. Further documentation of how Southern Company generated the 2009/2018 inventory for their units can be found in *Developing Southern Company Emissions and Flue Gas Characteristics for VISTAS Regional Haze Modeling (April 2005, presented at 14<sup>th</sup> International Emission Inventory Conference)*.

Each of these three options and the Southern Company projections were discussed in a series of conference calls with the VISTAS EGU Special Interest Work Group (SIWG) during the fall of 2004. During a conference call on December 6, 2004, the VISTAS EGU SIWG approved the use of the latest VISTAS/MRPO sponsored IPM runs (Option 3) to represent the 2009 and 2018 EGU forecasts of emissions for the OTB and OTW cases. During the call, Alabama and Georgia specified that they did not wish to use Southern Company provided emissions forecasts of 2009 and 2018 to represent the sources in their States. Mississippi decided to utilize the Southern Company projections to represent activity at Southern Company facilities in Mississippi. After the call, Florida decided against using Southern Company provided emissions forecasts of 2009 and 2018 to represent the sources in their State. Thus, Southern Company data was used only for Southern Company units in Mississippi for both the Base F and Base G projections.

The Option 3 IPM modeling resulted from a joint agreement by VISTAS and MRPO to work together to develop future year utility emissions based on IPM modeling. The decision to use



IPM modeling was based in part on a study of utility forecast methods by E.H. Pechan and Associates, Inc. (Pechan) for MRPO, which recommended IPM as a viable methodology (see *Electricity Generating Unit {EGU} Growth Modeling Method Task 2 Evaluation*, February 11, 2004). Although IPM results were available from EPA's modeling to support their rulemaking for the Clean Air Interstate Rule (CAIR), VISTAS stakeholders felt that certain model inputs needed to be improved. Thus, VISTAS and MRPO decided to hire contractors to conduct new IPM modeling and to post-process the IPM results. Southern Company projections in 2009 were roughly comparable with IPM. For 2018, Southern Company projections were generally less than IPM because of assumptions made by Southern Company on which units would be economical to control and incorrect data in the NEEDS database which feeds IPM.

In August 2004, VISTAS contracted with ICF International, Inc., to run IPM to provide utility forecasts for 2009 and 2018 under two future scenarios – Base Case and CAIR Case. The Base Case represents the current operation of the power system under currently known laws and regulations (as known at the time the run was made), including those that come into force in the study horizon. The CAIR Case is the Base Case with the proposed CAIR rule superimposed. The run results were parsed at the unit level for the 2009 and 2018 run years. Also in August 2004, MRPO contracted with E.H. Pechan to post-process the IPM outputs generated by ICF to provide model-ready emission files. The IPM output files were delivered by ICF to VISTAS in November (*Future Year Electricity Generating Sector Emission Inventory Development Using the Integrated Planning Model (IPM®) in Support of Fine Particulate Mass and Visibility Modeling in the VISTAS and Midwest RPO Regions*, January 2005), and the post-processed data files were delivered by Pechan to the MRPO in December 2004 (*LADCO IPM Model Parsed File Post-Processing Methodology and File Preparation*, February 8, 2005).

On March 10, 2005, EPA issued the final Clean Air Interstate Rule. VISTAS and MRPO, in conjunction with other RPOs, conducted another round of IPM modeling which reflected changes to control assumptions based on the final CAIR as well as additional changes to model inputs based on S/L agency and stakeholder comments. Several conference calls were conducted in the spring of 2005 to discuss and provide comments on IPM assumptions related to six main topics: power system operation, generating resources, emission control technologies, set-up parameters and rule, financial assumptions, and fuel assumptions. Based on these discussions, VISTAS sponsored a new set of IPM runs to reflect the final CAIR requirements as well as certain changes to IPM assumptions that were agreed to by the VISTAS states. This set of IPM runs is documented in *Future Year Electricity Generating Sector Emission Inventory Development Using the Integrated Planning Model (IPM®) in Support of Fine Particulate Mass and Visibility Modeling in the VISTAS and Midwest RPO Regions*, April 2005 (these runs are referred to as the VISTAS Phase I analysis).



Further refinements to the IPM inputs and assumptions were made by the RPOs, and ICF performed the following four runs using IPM during the summer of 2005 (these runs are referred to as the VISTAS/CENRAP Phase II analysis):

- Base Case with EPA 2.1.9 coal, gas and oil price assumptions.
- Base Case with EPA 2.1.9 coal and gas supply curves adjusted for AEO 2005 reference case price and volume relationships.
- Strategy Case with EPA 2.1.9 coal, gas and oil price assumptions.
- Strategy Case with EPA 2.1.9 coal and gas supply curves adjusted for AEO 2005 reference case price and volume relationships.

The above runs were parsed for 2009 and 2018 run years. The above four runs were based on VISTAS Phase I and the EPA 2.1.9 assumptions. The changes that were implemented in the above four runs are summarized below:

- Unadjusted AEO 2005 electricity demand projections were incorporated in the above four runs.
- The gas supply curves were adjusted for AEO 2005 reference case price and volume relationships. The EPA 2.1.9 gas supply curves were scaled such that IPM will solve for AEO 2005 gas prices when the power sector gas demand in IPM is consistent with AEO 2005 power sector gas demand projections.
- The coal supply curves used in EPA 2.1.9 were scaled in such a manner that the average mine mouth coal prices that the IPM is solving in aggregated coal supply regions are comparable to AEO 2005. Due to the fact that the coal grades and supply regions between AEO 2005 and the EPA 2.1.9 are not directly comparable, this was an approximate approach and had to be performed in an iterative fashion. The coal transportation matrix was not updated with EIA assumptions due to significant differences between the EPA 2.1.9 and EIA AEO 2005 coal supply and coal demand region configurations.
- The cost and performance of new units were updated to AEO 2005 reference case levels in all of the above four runs.
- The run years 2008, 2009, 2012, 2015, 2018, 2020 and 2026 were modeled.
- The AEO 2005 life extension costs for fossil and nuclear units were incorporated in the above runs.



- The extensive NEEDS comments provided by VISTAS, MRPO, CENRAP and MANE-VU were incorporated into the VISTAS Phase I NEEDS.
- MANE-VU's comments in regards to the state regulations in the northeast were incorporated.
- Renewable Portfolio Standards (RPS) in the northeast was modeled based on the Regional Greenhouse Gas Initiative analysis. A single RPS cap was modeled for MA, RI, NY, NJ, MD and CT. These states could buy credits from NY, PJM and New England model regions.
- The investments required under the Illinois power, Mirant and First Energy NSR settlements were incorporated in the above runs.

For the VISTAS/CENRAP Phase II set of IPM runs, ICF generated two different parsed files. One file includes all fuel burning units (fossil, biomass, landfill gas) as well as non-fuel burning units (hydro, wind, etc.). The second file contains just the fossil-fuel burning units (e.g., emissions from biomass and landfill gas are omitted). The RPOs decided to use the fossil-only file for modeling to be consistent with EPA, since EPA used the fossil only results for CAIR analyses. For the 10 VISTAS states, non-fossil fuels accounted for only 0.13 percent of the NO<sub>x</sub> emissions and 0.04 percent of the SO<sub>2</sub> emissions in the 2009 IPM runs.

S/L agencies reviewed the results of the VISTAS/CENRAP Phase II set of IPM runs, which were incorporated into the VISTAS Base F inventory. S/L agencies primarily reviewed and commented on the IPM results with respect to IPM decisions on NO<sub>x</sub> post-combustion controls and SO<sub>2</sub> scrubbers. S/L agencies provided the latest information on when and where new SO<sub>2</sub> and NO<sub>x</sub> controls are planned to come online. S/L agencies also reviewed the IPM results to verify that existing controls and emission rates were properly reflected in the IPM runs. As directed by the S/L agencies, adjustments to the IPM results were made to specific units with any new information they had as part of the permitting process or other contact with the industry that indicates which units will install controls as a result of CAIR and when these new controls will come on-line. Mississippi decided to continue to use the Southern Company projections instead of the IPM projections to represent emissions at Southern Company facilities in Mississippi. The initial set of state-specified changes to the VISTAS/CENRAP Phase II set of IPM runs were used to create the Base G projection inventory (and are documented later in Section 2.1.1.6). The second set of state specified changes were made only for the 2018 inventory, resulting in the Base G2 2018 inventory (documented later in Section 2.1.1.7). The final set of state specified changes applied to both the 2009 and 2018 inventories and were used to create the B&F 2009 and 2018 inventories (documented later in Section 2.1.1.8).



### 2.1.1.2 VISTAS IPM runs for EGU sources

The following general summary of the VISTAS IPM<sup>®</sup> modeling is based on ICF's documentation *Future Year Electricity Generating Sector Emission Inventory Development Using the IPM<sup>®</sup> in Support of Fine Particulate Mass and Visibility Modeling in the VISTAS and Midwest RPO Regions*, April 2005. The ICF documentation is to be used as an extension to EPA's proposed CAIR modeling runs documented in *Documentation Supplement for EPA Modeling Applications (V.2.1.6) Using the IPM*, EPA 430/R-03-007, July 2003.

IPM provides “forecasts of least-cost capacity expansion, electricity dispatch, and emission control strategies for meeting energy demand and environmental, transmission, dispatch, and reliability constraints.” The underlying database in this modeling is U.S. EPA's National Electric Energy Data System (NEEDS) released with the CAIR Notice of Data Availability (NODA). The NEEDS database contains the existing and planned/committed unit data in EPA modeling applications of IPM. NEEDS includes basic geographic, operating, air emissions, and other data on these generating units. VISTAS States and stakeholders provided changes for:

- NO<sub>x</sub> post-combustion control on existing units
- SO<sub>2</sub> scrubbers on existing units
- SO<sub>2</sub> emission limitations
- PM controls on existing units
- Summer net dependable capacity
- Heat rate for existing units
- SO<sub>2</sub> and NO<sub>x</sub> control plans based on State rules or enforcement settlements

The years 2009 and 2018 were explicitly modeled.

### 2.1.1.3 Post-Processing of IPM Parsed Files

The following summary of the VISTAS/Midwest Regional Planning Organization (MRPO) IPM modeling is based on Pechan's documentation *LADCO IPM Model Parsed File Post-Processing Methodology and File Preparation*, February 8, 2005. The essence of the IPM model post-processing methodology is to take an initial IPM model output file and transform it into air quality model input files. ICF via VISTAS/MRPO provides an initial spreadsheet file containing unit-level records of both

- (1) “existing” units and
- (2) committed or new generic aggregates.

All records have unit and fuel type data; existing, retrofit (for SO<sub>2</sub> and NO<sub>x</sub>), and separate NO<sub>x</sub> control information; annual SO<sub>2</sub> and NO<sub>x</sub> emissions and heat input; summer season (May-September) NO<sub>x</sub> and heat input; July day NO<sub>x</sub> and heat input; coal heat input by coal type;



nameplate capacity megawatt (MW), and State FIPS code. Existing units also have county FIPS code, a unique plant identifier (ORISPL) and unit ID (also called boiler ID) (BLRID); generic units do not have these data. The processing includes estimating various types of emissions and adding in control efficiencies, stack parameters, latitude-longitude coordinates, and State identifiers (plant ID, point ID, stack ID, process ID). Additionally, the generic units are sited in a county and given appropriate IDs. This processing is described in more detail below.

The data are prepared by transforming the generic aggregates into units similar to the existing units in terms of the available data. The generic aggregates are split into smaller generic units based on their unit types and capacity, are provided a dummy ORIS unique plant and boiler ID, and are given a county FIPS code based on an algorithm that sites each generic by assigning a sister plant that is in a county based on its attainment/nonattainment status. Within a State, plants (in county then ORIS plant code order) in attainment counties are used first as sister sites to generic units, followed by plants in PM nonattainment counties, followed by plants in 8-hour ozone nonattainment counties. Note that no LADCO or VISTAS States provided blackout counties that would not be considered when siting generics, so this process is identical to the one used for EPA IPM post-processing.

SCCs were assigned for all units; unit/fuel/firing/bottom type data were used for existing units' assignments, while only unit and fuel type were used for generic units' assignments. Latitude-longitude coordinates were assigned, first using the EPA-provided data files, secondly using the September 17, 2004 Pechan in-house latitude-longitude file, and lastly using county centroids. These data were only used when the data were not provided in the 2002 NIF files. Stack parameters were attached, first using the EPA-provided data files, secondly using a March 9, 2004 Pechan in-house stack parameter file based on previous EIA-767 data, and lastly using an EPA June 2003 SCC-based default stack parameter file. These data were only used when the data were not provided in the 2002 NIF files.

Additional data were required for estimating VOC, CO, filterable primary PM<sub>10</sub> and PM<sub>2.5</sub>, PM condensable, and NH<sub>3</sub> emissions for all units. Thus, ash and sulfur contents were assigned by first using 2002 EIA-767 values for existing units or SCC-based defaults; filterable PM<sub>10</sub> and PM<sub>2.5</sub> efficiencies were obtained from the 2002 EGU NEI that were based on 2002 EIA-767 control data and the PM Calculator program (a default of 99.2 percent is used for coal units if necessary); fuel use was back calculated from the given heat input and a default SCC-based heat content; and emission factors were obtained from an EPA-approved October 7, 2004 Pechan emission factor file based on AP-42 emission factors. Note that this updated file is not the one used for estimating emissions for previous EPA post-processed IPM files. Emissions for 28 temporal-pollutant combinations were estimated since there are seven pollutants (VOC, CO, primary PM<sub>10</sub> and PM<sub>2.5</sub>, NH<sub>3</sub>, SO<sub>2</sub> and NO<sub>x</sub>) and four temporal periods (annual, summer season, winter season, July day).



The next step was to match the IPM unit IDs with the identifiers in VISTAS 2002 inventory. A crosswalk file was used to obtain FIPS State and county, plant ID (within State and county), and point ID. If the FIPS State and county, plant ID and point ID are in the 2002 VISTAS NIF tables, then the process ID and stack ID are obtained from the NIF; otherwise, defaults, described above, were used.

Pechan provided the post-processed files in NIF 3.0 format. Two sets of tables were developed : “NIF files” for IPM units that have a crosswalk match and are in the 2002 VISTAS inventory, and “NoNIF files” for IPM units that are not in the 2002 VISTAS inventory (which includes existing units with or without a crosswalk match as well as generic units).

For Base F and Base G projections, VISTAS reviewed the PM and NH<sub>3</sub> emissions from EGUs as provided by Pechan and identified significantly higher emissions in 2009/2018 than in 2002. VISTAS determined that Pechan used a set of PM and NH<sub>3</sub> emission factors that are “the most recent EPA approved uncontrolled emission factors” for estimating 2009/2018 emissions. These factors are most likely not the same emission factors used by States for estimating these emissions in 2002 for EGUs in the VISTAS domain. Thus, the emission increase from 2002 to 2009/2018 was simply an artifact of the change in emission factor, not anything to do with changes in activity or control technology application. Also, VISTAS identified an inconsistent use of SCCs for determining emission factors between the base and future years.

VISTAS resolution of the PM and NH<sub>3</sub> problem is fully documented in *EGU Emission Factors and Emission Factor Assignment*, memorandum from Greg Stella to VISTAS State Point Source Contacts and VISTAS EGU Special Interest Workgroup, June 13, 2005. The first step was the adjustment of the 2002 base year emissions inventory. Using the latest “EPA-approved” uncontrolled emission factors by SCC, Alpine Geophysics utilized CERR or VISTAS reported annual heat input, fuel throughput, heat, ash and sulfur content to estimate annual uncontrolled emissions for units identified as output by IPM. This step was conducted for non-CEM pollutants (CO, VOC, PM, and NH<sub>3</sub>) only. For PM emissions, the condensable component of emissions was calculated and added to the resulting PM primary estimations. The resulting emissions were then adjusted by any control efficiency factors reported in the CERR or VISTAS data collection effort. The second adjustment was to the future year inventories. Alpine Geophysics updated the SCCs in the future year inventory to assign the same base year SCC. Using the same methods as described for the 2002 revisions, those non-IPM generated pollutants were estimated using IPM predicted fuel characteristics and base year 2002 SCC assignments.

#### **2.1.1.4 Eliminating Double Counting of EGU Units**

The following procedures were used to avoid double counting of EGU emissions in the 2009/2018 point source inventory. The 2002 VISTAS point source emission inventory contains both EGUs and non-EGUs. Since this file contains both EGUs and non-EGU point sources, and



EGU emissions are projected using the IPM, it was necessary to split the 2002 point source file into two components. The first component contains those emission units accounted for in the IPM forecasts. The second component contains all other point sources not accounted for in IPM.

As described in the previous section, Pechan developed 2009/2018 NIF files for EGUs from the IPM parsed files. All IPM matched units were initially removed from the 2009/2018 point source inventory to create the non-EGU inventory (which was projected to 2009/2018 using the non-EGU growth and control factors described in Section 2.1.2). This was done on a unit-by-unit basis based on a cross-reference table that matches IPM emission unit identifiers (ORISPL plant code and BLRID emission unit code) to VISTAS NIF emission unit identifiers (FIPSST state code, FIPSCNTY county code, State Plant ID, State Point ID). When there was a match between the IPM ORISPL/BLRID and the VISTAS emission unit ID, the unit was assigned to the EGU inventory; all other emission units were assigned to the non-EGU inventory.

If an emission unit was contained in the NIF files created by Pechan from the IPM output, the corresponding unit was removed from the initial 2009/2018 point source inventory. The NIF 2009/2018 EGU files from the IPM parsed files were then merged with the non-EGU 2009/2018 files to create the 2009/2018 Base F point source files.

Next, we prepared several ad-hoc QA/QC queries to verify that there was no double-counting of emissions in the EGU and non-EGU inventories:

- We reviewed the IPM parsed files { VISTASII\_PC\_1f\_AllUnits\_2009 (To Client).xls and VISTASII\_PC\_1f\_AllUnits\_2018 (To Client).xls } to identify EGUs accounted for in IPM. We compared this list of emission units to the non-EGU inventory derived from the VISTAS cross-reference table to verify that units accounted for in IPM were not double-counted in the non-EGU inventory. As a result of this comparison, we made a few adjustments in the cross-reference table to add emission units for four plants to ensure these units accounted for in IPM were moved to the EGU inventory.
- We reviewed the non-EGU inventory to identify remaining emission units with an Standard Industrial Classification (SIC) code of “4911 Electrical Services” or Source Classification Code of “1-01-xxx-xx External Combustion Boiler, Electric Generation”. We compared the list of sources meeting these selection criteria to the IPM parsed file to ensure that these units were not double-counted.

S/L agencies also reviewed the 2009/2018 point source inventory to verify whether there was any double counting of EGU emissions. In two instances, S/L agencies provided corrections where an emission unit was double counted.



### **2.1.1.5 Quality Assurance Steps**

Quality assurance was an important component to the inventory development process. The following QA steps on the EGU component of the VISTAS revised 2009/2018 EGU inventory:

1. Provided parsed files (i.e., Excel spreadsheets that provide unit-level results derived from the model plant projections obtained by the IPM) to the VISTAS EGU SIWG for review.
2. Provided facility level emission summaries for 2009/2018 for both the base case and CAIR case to the VISTAS EGU SIWG to ensure that emissions were consistent and that there were no missing sources.
3. Compared, at the State-level, emissions from the IPM parsed files and the post-processed NIF files to verify that the post-processed NIF files were consistent with the IPM parsed file results.

VISTAS requested S/L review of these files – the changes specified by states as a result of this review are documented in the following subsection.

### **2.1.1.6 S/L Adjustments to IPM Modeling Results for Base G Projections**

After S/L agency review of the final set of IPM runs (as incorporated into the Base F inventory), S/L agencies specified a number of changes to the IPM results to better reflect current information on when and where future controls would occur. These changes to the IPM results primarily involved S/L agency addition or subtraction future emission controls based on the best available data from state rules, enforcement agreements, compliance plans, permits, and discussions/commitments from individual companies.

For example, Dominion Virginia Power released their company-wide plan to reduce emission to meet the requirements of CAIR and other programs. This plan varies substantially from the IPM results both in terms current and future controls and timing of these controls. As a result, VA DEQ developed their best estimates of future controls on EGUs in Virginia. Also, Duke Energy and Progress Energy have updated their plans for complying with North Carolina's Clean Smokestack Act. These plans vary substantially from the IPM results both in terms current and future controls and timing of these controls. As a result, NC DENR replaced the IPM emission projections for 2009 with projections from the Duke Energy and Progress Energy compliance plan. NC DENR elected to use the IPM results for 2018.

Some S/L agencies specified changes to the controls assigned by IPM to reflect their best estimates of emission controls. These changes involved either 1) adding selective catalytic reduction (SCR) or scrubber controls to units where IPM did not predict SCR or scrubber controls, or 2) removing IPM-assigned SCR or scrubber controls at units where the S/L agency indicated their were no firm plans for controls at those units. We generally used a control



efficiency of 90 percent when adding or removing SO<sub>2</sub> scrubber controls (unless a different control efficiency was provided by the State). We generally used a control efficiency of 90 percent when adding or removing NO<sub>x</sub> SCR controls at coal-fired plants, 80 percent when adding or removing NO<sub>x</sub> SCR controls at gas-fired plants, and 35 percent when adding or removing NO<sub>x</sub> SNCR controls (unless a different control efficiency was provided by the State). The changes specified by the S/L agencies are summarized in Table 2.1-1. A comparison of the IPM and VISTAS control assumptions for all coal-fired EGUs in the Base G/G2 inventories are summarized in Appendix H. In addition to the changes to the IPM-assigned controls, the S/L agencies also specified other types of changes to the IPM results. These other specific changes to the IPM results are summarized in Table 2.1-2.

S/L agencies provided information and/or comment on changes in stack parameters from the 2002 inventory for 2009/2018 inventory. Changes to stack parameters were also made in cases where new controls are scheduled to be installed. In cases where an emission unit projected to have a SO<sub>2</sub> scrubber in either 2009 or 2018, some states were able to provide revised stack parameters for some units based on design features for the new control system. Other units projected to install scrubbers by 2009 or 2018 are not far enough along in the design process to have specific design details. For those units, the VISTAS EGU SIWG made the following assumptions: 1) the scrubber is a wet scrubber; 2) keep the current stack height the same; 3) keep the current flow rate the same, and 4) change the stack exit temperature to 169 degrees F (this is the virtual temperature derived from a wet temperature of 130 degrees F). VISTAS determined that exit temperature (wet) of 130 degrees F +/- 5 degrees F is representative of different size units and wet scrubber technology.

#### **2.1.1.7 S/L Adjustments to IPM Modeling Results for Base G2 2018 Projections**

Following release of the Base G inventory, four States specified additional changes to reflect their best estimates of emission controls in 2018. These additional changes are marked with an “\*” in Tables 2.1-1 and 2.1-2. The following changes were requested and implemented in the VISTAS 2018 Base G2 EGU emissions and modeling inventories:

- **Florida** - Removed scrubbers from Smith units 1 & 2. Added scrubbers to Crist units 4, 5, & 6. Forecast emissions (from 2002 base) using growth factors for Northside units 1A and 2A. These units were estimated to be non operational in the IPM base case run.
- **Georgia** - Added scrubbers to Plant Scherer (Units 1-4) and Plant Yates (Units 6 & 7).
- **North Carolina** - Remove scrubber from F Lee unit 3.
- **West Virginia** - Pleasants Units 1 and 2 had SO<sub>2</sub> emissions reduced to account for the facility's inclusion of previously bypassed 15% effluent stream to the scrubber and the control efficiency and emissions will reflect a change from 79.9% to 95% control.



**Table 2.1-1 Adjustments to IPM Control Determinations Specified by S/L Agencies  
for the Base G/G2 2009/2018 EGU Inventories.**

| State | Plant Name and ID              | Unit    | NO <sub>x</sub> Retrofit Emission Controls |                                     |                         |  | SO <sub>2</sub> Retrofit Emission Controls |              |              |  |
|-------|--------------------------------|---------|--|-------------------------------------|-------------------------|--|--|--------------|--------------|--|
|       |                                |         | 2009                                       |                                     | 2018                    |  | 2009                                       |              | 2018         |  |
|       |                                |         | IPM  | State                               | IPM                     | State  | IPM  | State        | IPM          | State  |
| AL    | James H. Miller<br>ORISID=6002 | 1 & 2   | SCR during ozone season                    | SCR probable year round due to CAIR | SCR during ozone season | SCR probable year round due to CAIR                  | None                                       | None         | None         | Scrubber   |
|       |                                | 3 & 4   | SCR during ozone season                    | SCR year round from Consent Decree  | SCR during ozone season | SCR year round from Consent Decree                   | None                                       | None         | None         | Scrubber   |
|       | Barry<br>ORISID=3              | 1, 2, 3 | None                                       | SNCR                                | SCR                     | SNCR   | None                                       | None         | None         | None   |
|       |                                | 4       | None                                       | SNCR                                | SCR                     | SNCR   | None                                       | None         | Scrubber     | Scrubber   |
|       |                                | 5       | None                                       | None                                | SCR                     | SCR  | None                                       | None         | Scrubber     | Scrubber   |
|       | E C Gaston<br>ORISID=26        | 1 - 4   | SCR  | None                                | SCR                     | None   | None                                       | None         | Scrubber     | Scrubber   |
|       |                                | 5       | SCR  | SCR                                 | SCR                     | SCR  | Scrubber                                   | None         | Scrubber     | Scrubber   |
|       |                                | 6 & 7   | None                                       | None                                | None                    | None   | None                                       | None         | None         | None   |
|       | Gorgas<br>ORISID=8             | 8 & 9   | None                                       | None                                | None                    | None   | None                                       | Scrubber     | None         | Scrubber   |
|       |                                | 10      | SCR  | SCR                                 | SCR                     | SCR  | None                                       | Scrubber     | Scrubber     | Scrubber   |
| FL    | Charles R. Lowman<br>ORISID=56 | 1       | None                                       | None                                | None                    | None   | None                                       | Scrubber     | None         | Scrubber   |
|       |                                | 2 & 3   | SCR  | SCR                                 | SCR                     | SCR  | Scrubber                                   | Scrubber     | Scrubber     | Scrubber   |
|       | Lansing Smith<br>ORISID=643    | 1       | None                                       | None                                | SCR                     | SCR  | None                                       | None         | Scrubber     | None*  |
|       |                                | 2       | None                                       | None                                | SCR                     | SCR  | None                                       | None         | Scrubber     | None*  |
|       | Northside<br>ORISID=667        | 1A & 1B | No operation                               | No operation                        | No operation            | No control, emissions forecasted using growth rates* | No operation                               | No operation | No operation | No control, emissions forecasted using growth rates* |
|       |                                |         |  |                                     |                         |  |  |              |              |  |



**Table 2.1-1 (continued)**

| State | Plant Name and ID       | Unit | NO <sub>x</sub> Retrofit Emission Controls |       |      | SO <sub>2</sub> Retrofit Emission Controls |   |           |
|-------|-------------------------|------|--|-------|------|--|---|-----------|
|       |                         |      | 2009                                       |       | 2018 |  | 2009  |           |
|       |                         |      | IPM  | State | IPM  | State                                      | IPM   | State     |
| FL    | Crist<br>ORISID=641     | 4    | None                                       | None  | None | None                                       | None  | Scrubber* |
|       |                         | 5    | None                                       | None  | None | None                                       | None  | Scrubber* |
|       |                         | 6    | None                                       | None  | None | None                                       | None  | Scrubber* |
| GA    | Bowen<br>ORISID=703     | 1BLR | SCR  | SCR   | SCR  | SCR  | IPM had retrofit scrubbers but little emission reductions | Scrubber  |
|       |                         | 2BLR | SCR  | SCR   | SCR  | SCR  |   | Scrubber  |
|       |                         | 3BLR | SCR  | SCR   | SCR  | SCR  |   | Scrubber  |
|       |                         | 4BLR | SCR  | SCR   | SCR  | SCR  |   | Scrubber  |
|       | Wansley<br>ORISID=6052  | 1    | SCR  | SCR   | SCR  | SCR  | IPM had retrofit scrubbers but little emission reductions | Scrubber  |
|       |                         | 2    | SCR  | SCR   | SCR  | SCR  |   | Scrubber  |
|       | Kraft<br>ORISID=733     | 1, 2 | None                                       | None  | None | None                                       | None  | None      |
|       |                         | 3    | None                                       | None  | SCR  | None                                       | None  | None      |
|       | McIntosh<br>ORISID=6124 | 1    | None                                       | None  | SCR  | None                                       | None  | None      |
|       |                         | 1    | None                                       | None  | None | None                                       | Scrubber  | Scrubber  |
|       | Yates<br>ORISID=728     | 2, 3 | None                                       | None  | None | None                                       | None  | None      |
|       |                         | 4, 5 | None                                       | None  | SCR  | SCR  | None  | None      |
|       |                         | 6, 7 | None                                       | None  | SCR  | SCR  | None  | Scrubber* |



Table 2.1-1 (continued)

| State | Plant Name and ID        | Unit | NO <sub>x</sub> Retrofit Emission Controls |       |      |       | SO <sub>2</sub> Retrofit Emission Controls |          |          |           |
|-------|--------------------------|------|--|-------|------|-------|--|----------|----------|-----------|
|       |                          |      | 2009                                       |       | 2018 |       | 2009                                       |          | 2018     |           |
|       |                          |      | IPM  | State | IPM  | State | IPM  | State    | IPM      | State     |
| GA    | Hammond<br>ORISID=708    | 1    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | 2    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | 3    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | 4    | SCR  | SCR   | SCR  | SCR   | Scrubber                                   | Scrubber | Scrubber | Scrubber  |
|       | Scherer<br>ORISID=6257   | 1    | None                                       | None  | None | None  | None                                       | None     | None     | Scrubber* |
|       |                          | 2    | None                                       | None  | None | None  | None                                       | None     | None     | Scrubber* |
|       |                          | 3    | None                                       | None  | None | None  | None                                       | None     | None     | Scrubber* |
|       |                          | 4    | None                                       | None  | None | None  | None                                       | None     | None     | Scrubber* |
| KY    | Ghent<br>ORISID=1356     | 1    | None                                       | SCR   | SCR  | SCR   | Scrubber                                   | Scrubber | Scrubber | Scrubber  |
|       |                          | 2    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | 3, 4 | None                                       | SCR   | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       | Coleman<br>ORISID=1381   | C1   | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | C2   | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | C3   | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       | HMP&L Station 2          | H1   | SCR  | SCR   | SCR  | SCR   | Scrubber                                   | Scrubber | Scrubber | Scrubber  |
|       |                          | H2   | None                                       | SCR   | SCR  | SCR   | Scrubber                                   | Scrubber | Scrubber | Scrubber  |
| SC    | E W Brown<br>ORISID=1355 | 1    | None                                       | None  | None | None  | None                                       | Scrubber | None     | Scrubber  |
|       |                          | 2    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       |                          | 3    | None                                       | None  | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |
|       | Jeffries<br>ORISID=3319  | 3    | SCR  | None  | SCR  | None  | None                                       | None     | None     | None      |
|       |                          | 4    | None                                       | None  | None | None  | None                                       | None     | None     | None      |
|       | Wateree<br>ORISID=3297   | WAT1 | SCR  | SCR   | SCR  | SCR   | None                                       | Scrubber | None     | Scrubber  |
|       |                          | WAT2 | SCR  | SCR   | SCR  | SCR   | None                                       | Scrubber | Scrubber | Scrubber  |



Table 2.1-1 (continued)

| State | Plant Name and ID            | Unit   | NO <sub>x</sub> Retrofit Emission Controls |       |      | SO <sub>2</sub> Retrofit Emission Controls |          |          |
|-------|------------------------------|--------|--|-------|------|--|----------|----------|
|       |                              |        | 2009                                       |       | 2018 |  | 2009     |          |
|       |                              |        | IPM  | State | IPM  | State                                      | IPM      | State    |
| SC    | Canadys<br>ORISID=3280       | CAN1   | None                                       | None  | None | None                                       | None     | None     |
|       |                              | CAN2   | None                                       | None  | None | None                                       | None     | None     |
|       |                              | CAN3   | None                                       | None  | None | Scrubber                                   | None     | Scrubber |
|       | Rainey<br>ORISID=7834        | CT1A   | None                                       | SCR   | None | SCR  | None     | None     |
| TN    | Kingston<br>ORISID=3407      | CT1B   | None                                       | SCR   | None | SCR  | None     | None     |
|       |                              | 1 - 8  | SCR  | SCR   | SCR  | SCR  | None     | Scrubber |
|       | Johnsonville<br>ORISID=3406  | 9      | None                                       | SCR   | SCR  | SCR  | Scrubber | Scrubber |
|       |                              | 1 - 10 | SCR  | None  | SCR  | SCR  | None     | None     |
| WV    | Willow Island<br>ORISID=3946 | 2      | SCR  | None  | SCR  | SCR  | Scrubber | Scrubber |
|       |                              | 1 - 3  | SCR  | None  | SCR  | SCR  | Scrubber | Scrubber |
|       | Kammer<br>ORISID=3947        |        | SCR  | None  | SCR  | SCR  | Scrubber | Scrubber |

**Note:** See Appendix H for a complete list of IPM and VISTAS control determinations for all coal and oil/gas units.



**Table 2.1-2 Other Adjustments to IPM Results Specified by S/L Agencies  
for the Base G/G2 2009/2018 EGU Inventories.**

| State | Plant Name and ID  | Unit                             | Nature of Update/Correction   |
|-------|--|----------------------------------|---|
| FL    | Central Power and Lime<br>ORISID= 10333                            | GEN1                             | Central Power and Lime (ORIS10333) is a duplicate entry. This is point 18 in Florida Crushed Stone (12-053-0530021). Removed IPM emissions for Central Power and Lime.  |
|       | Cedar Bay Generating<br>ORISID=10672                               | GEN1                             | FLDEP disagrees with IPM projections - no knowledge of expansion of this facility and the cogeneration facility should not grow faster than the underlying industry. Cedar Bay is connected to Stone Container (12-031-0310067). Replaced IPM emissions with 2002 emissions for Cedar Bay (12-031-0310337) times the growth factors for Stone Container.            |
|       | Indiantown Cogeneration<br>ORISID=50976                            | GEN1                             | FLDEP disagrees with IPM projections - no knowledge of expansion of this facility and the cogeneration facility should not grow faster than the underlying industry. Indiantown is connected to Louis Dreyfus Citrus (12-085-0850002). Replaced IPM emissions with 2002 emissions for Indiantown (12-085-0850102) times the growth factors for Louis Drefus Citrus. |
| GA    | Bowen<br>ORISID=703  | 1BLR<br>2BLR<br>3BLR<br>4BLR     | IPM indicated retrofit scrubbers on all 4 units in 2009, but the IPM emissions showed little reductions from 2002 levels. Changed emissions to reflect scrubbers on 3BLR and 4BLR by 2009.  |
|       | Wansley<br>ORISID=6052   | 1, 2                             | IPM indicated retrofit scrubbers on both units in 2009, but the IPM emissions showed little reductions from 2002 levels. Changed emissions to reflect one scrubber on Unit 1 by 2009.   |
|       | Riverside<br>ORISID=734  | 4                                | All of plant Riverside was retired from service June 1, 2005; emissions set to zero in 2009 and 2018.   |
|       | McIntosh<br>ORISID=727   | CT10A<br>CT10B<br>CT11A<br>CT11B | The McIntosh Combined Cycle facility became commercial June 1, 2005. Added 346 tons of NO <sub>x</sub> and 121 tons of SO <sub>2</sub> per unit to the 2009 and 2018 inventories.   |
|       | Longleaf Energy Station  | 1, 2                             | Longleaf Energy Station is being proposed by LS Power Development, Inc. GA specified that the emissions from this proposed plant be included in the 2018 projections. Boilers 1 and 2 added 1,882 tons of NO <sub>x</sub> and 3,227 tons of SO <sub>2</sub> per unit to the 2018 inventory.   |
|       | Duke Murray (55382)  | 1                                | Corrected coordinates to 34.7189 and -84.9353   |
| MS    | R D Morrow<br>ORISID=6061  | 1, 2                             | Revised the 2018 emissions to reflect controls not indicated by IPM. The SO <sub>2</sub> emissions are much lower than IPM, but their expected NO <sub>x</sub> emissions are actually higher than IPM. The controls will be coming online 2009 or 2010, so the 2009 inventory did not change.   |
|       | Jack Watson (2049)<br>Victor J Daniel (6073)<br>Chevron Oil (2047) | All                              | MS DEQ specified that the emission projections provided by the Southern Company for their units in Mississippi were to be used instead of the IPM results.  |



**Table 2.1-2 (continued)**

| State | Plant Name and ID  | Unit         | Nature of Update/Correction  |
|-------|--|--------------|--|
| NC    | G G Allen (2718)<br>Belews Creek (8042)1<br>Buck (2720)<br>Cliffside (2721)<br>Dan River (2723)<br>Marshall (2727)<br>Riverbend (2732) | All          | Replaced all IPM 2009 results with emission projections from Duke Power's NC Clean Air Compliance Plan for 2006. Used IPM results for 2018   |
|       | Asheville (2706)<br>Cape Fear (2708)<br>Lee (2709)<br>Mayo (6250)<br>Roxboro (2712)<br>Sutton (2713)<br>Weatherspoon (2716)            | All          | Replaced all IPM 2009 results with emission projections from Progress Energy's NC Clean Smokestacks Act Calendar Year 2005 Progress Report. Used IPM results for 2018, except for Lee #3* where IPM projected a retrofit scrubber but NC specified that no scrubber was to be applied.   |
|       | Dwayne Collier Battle Cogeneration Facility<br>ORISID=10384  | GEN1<br>GEN2 | Dwayne Collier Battle is a duplicate entry. This is Cogentrix of Rocky Mount (37-065-3706500146, stacks G-26 and G-27). Duplicate entries were removed both the 2009 and 2018 inventories.   |
|       | Kannapolis Energy Partners<br>ORISID=10626   | GEN2<br>GEN3 | Kannapolis Energy emissions are being used as credits for another facility. IPM emissions from this facility (37-025-ORIS10626) were removed from the EGU inventory for 2009 and 2018. Emissions from Kannapolis Energy (37-025-3702500113) were carried forward in the 2009/2018 inventory.   |
|       |  |              |  |
| SC    | Cross<br>ORISID=130  | 1, 2         | Unit 1: upgrade scrubber from 82 percent to 95 percent removal efficiency by June 30, 2006. Recalculate emissions based on upgrade in control efficiency.<br>Unit 2: upgrade scrubber from 70 percent to 87 percent removal efficiency by June 30, 2006. Recalculate emissions based on upgrade in control efficiency.   |
|       | Winyah<br>ORISID=6249  | 1 – 4        | Unit 1: Install scrubber that meets 95 percent removal efficiency by Dec. 31, 2008; Upgrade ESP from 0.38 to 0.03 lb/mmBTU by Dec. 31, 2008<br>Unit 2: Replace scrubber with one that meets 95 percent removal efficiency from 45 percent by Dec. 31, 2008; Upgrade ESP from 0.10 to 0.03 lb/mmBTU by Dec. 31, 2008<br>Unit 3: Upgrade scrubber from 70 percent to 90 percent removal efficiency by Dec. 31, 2012; Upgrade ESP from 0.10 to 0.03 lb/mmBTU by Dec. 31, 2012<br>Unit 4: Upgrade scrubber from 70 percent to 90 percent removal efficiency by Dec. 31, 2007; Upgrade ESP from 0.10 to 0.03 lb/mmBTU by Dec. 31, 2007<br>Recalculated SO <sub>2</sub> and PM emissions based on upgrade in control efficiencies. |



**Table 2.1-2 (continued)**

| State | Plant Name and ID                    | Unit          | Nature of Update/Correction   |
|-------|--------------------------------------|---------------|---|
| SC    | Dolphus Grainger<br>ORISID=3317      | 1, 2          | Unit 1: Upgrade ESP from 0.60 to 0.03 lb/mmBTU by Dec. 31, 2012. Reduced PM <sub>10</sub> and PM <sub>25</sub> emissions in 2018 by 95 percent based on change in allowable emission rate<br>Unit 2: Install low NO <sub>x</sub> burners that meet 0.46 lb/mmBTU from 0.9 by May 1, 2004. Recalculated NO <sub>x</sub> emissions using 0.46/lbs/mmBtu and IPM heat input<br>Unit 2: Upgrade ESP from 0.60 to 0.03 lb/mmBTU by Dec. 31, 2012. Reduced PM <sub>10</sub> and PM <sub>25</sub> emissions in 2018 by 95 percent based on change in allowable emission rate |
|       | Jeffries<br>ORISID=3319              | 3, 4          | Unit 3: Upgrade ESP from 0.54 to 0.03 lb/mmBTU by Dec. 31, 2012. Reduced PM <sub>10</sub> and PM <sub>25</sub> emissions in 2018 by 94.44 percent based on change in allowable emission rate<br>Unit 4: Upgrade ESP from 0.54 to 0.03 lb/mmBTU by Dec. 31, 2012. Reduced PM <sub>10</sub> and PM <sub>25</sub> emissions in 2018 by 94.44 percent based on change in allowable emission rate  |
|       | W S Lee<br>ORISID=3264               | 1, 2          | IPM does not indicate that these units are installing SOFA NO <sub>x</sub> control technology by April 30, 2006 to meet 0.27 lb/mmBTU, down from 0.45 lb/mmBtu. Calculated NO <sub>x</sub> emissions using IPM heat input and 0.27 lbs/mmBtu  |
|       | Generic Unit<br>ORISID=900545        | All           | All predictions for generic units appear reasonable with the exception of Plant ID ORIS900545 Point ID GSC45 which was modeled in Georgetown County. It will be very difficult to add new generation this close to the Cape Romain Class I area. Santee Cooper has no plans for future generation in Georgetown County, but does have plans for new future generation in Florence County. This unit was moved to coordinates specified in Florence County.  |
| VA    | AEP Clinch River<br>ORISID=3775      | 1, 2, 3       | Used IPM results for 2009; replaced all 2018 IPM results with VADEQ's growth and control estimates (no SCR or scrubbers).   |
|       | AEP Glen Lyn<br>ORISID=3776          | 51, 52,<br>6  | Used 2009/2018 IPM results for units 51 and 52; used 2009 IPM for unit 6; replaced 2018 IPM for unit 6 with VADEQ's growth and control estimates (nor SCR or scrubber).   |
|       | Dominion Clover<br>ORISID=7213       | 1, 2          | Used 2009/2018 IPM results.   |
|       | Dominion Brema<br>ORISID=3796        | 3, 4          | Used 2009/2018 IPM results.   |
|       | Dominion Chesterfield<br>ORISID=3797 | 3, 4,<br>5, 6 | Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.  |
|       | Dominion Yorktown<br>ORISID=3809     | 1, 2, 3       | Units 1, 2: Used 2009/2018 IPM results for NO <sub>x</sub> and used VADEQ's growth and control estimates for SO <sub>2</sub> .<br>Unit 3: IPM predicts zero heat input for this 880 MW #6 oil fired unit. Dominion plans to continue to operate Unit 3.<br>Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.   |



**Table 2.1-2 (continued)**

| State | Plant Name and ID                      | Unit            | Nature of Update/Correction  |
|-------|--|-----------------|--|
| VA    | Dominion Chesapeake<br>ORISID=3803     | 1 – 4           | Unit 1: Used 2009/2018 IPM for NO <sub>x</sub> ; used 2009 IPM for SO <sub>2</sub> ; used VADEQ's growth and control estimates for SO <sub>2</sub> (added scrubber that IPM did not have)<br>Unit 2: Used 2009/2018 IPM for NO <sub>x</sub> ; used 2009 IPM for SO <sub>2</sub> ; used VADEQ's growth and control estimates for SO <sub>2</sub> (added scrubber that IPM did not have)<br>Unit 3: Used VA DEQ's growth and control estimates for 2009 NO <sub>x</sub> (added SCR that IPM did not have); used IPM result for 2018 NO <sub>x</sub> ; Used 2009/2018 IPM for SO <sub>2</sub> .<br>Unit 4: Used VA DEQ's growth and control estimates for 2009 NO <sub>x</sub> (added SCR that IPM did not have); used IPM result for 2018 NO <sub>x</sub> ; Used 2009/2018 IPM for SO <sub>2</sub> . |
|       | Dominion Possum Point<br>ORISID=3804   | 3 & 4<br>5<br>6 | Unit 3&4: IPM had 137 tons of NO <sub>x</sub> for these units in 2009 and 111 tons in 2018. VA DEQ specified that the permitted emission rates should be used, which equates to 3,066 tons in 2009 and 2018.<br>Unit 5: IPM had zero heat input. Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.<br>Unit 6: Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.  |
|       | Potomac River<br>ORISID=3788           | 1 - 5           | Units 1&2: IPM retired these units. Mirant has no plans at this time to retire any units. Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.<br>Units 3, 4, 5: Replaced all 2009/2018 IPM results using VADEQ's growth and control estimates.  |
| WV    | Albright<br>ORISID=3942                | 1, 2            | IPM predicted early retirement for these units. AEP indicated there are no plans for early retirement. For 2009, used 2002 actual emissions as these units are not likely to retire by 2009. For 2018, used IPM prediction of retirement.  |
|       | Rivesville<br>ORISID=3945              | 7, 8            | IPM predicted early retirement for these units. AEP indicated there are no plans for early retirement. For 2009, used 2002 actual emissions as these units are not likely to retire by 2009. For 2018, used IPM prediction of retirement.  |
|       | Willow Island<br>ORISID=3946           | 1, 2            | Unit 1: IPM predicted early retirement for these units. AEP indicated there are no plans for early retirement. For 2009, used 2002 emissions as these units are not likely to retire by 2009. For 2018, used IPM prediction of retirement.<br>Unit 2: IPM predicted SCR and scrubber for 2009. These controls will not be in place by 2009.  |
|       | North Branch<br>ORISID=7537            | 1A, 1B          | SO <sub>2</sub> Permit Rate was corrected from 2.7 to 0.678 lb/MMBtu. Used SO <sub>2</sub> Permit Rate and IPM predicted total fuel used to calculate SO <sub>2</sub> emissions in 2009 and 2018   |
|       | Mt. Storm<br>ORISID=3954               | 1, 2, 3         | SO <sub>2</sub> Permit Rate was corrected from 2.7 to 0.15 lb/MMBtu. Used SO <sub>2</sub> Permit Rate of 0.15 lb/MMBtu and IPM predicted total fuel used to calculate SO <sub>2</sub> emissions in 2009 and 2018   |
|       | Pleasants Power Station<br>ORISID=6004 | 1, 2            | IPM applied a scrubber with a 79.9% control efficiency; WV indicated that the control efficiency should be 95%.  |



### 2.1.1.8 S/L Adjustments to IPM Modeling Results for B&F Projections

For the B&F inventory, the S/L agencies were asked to review the Base G2 inventory with respect to the following items:

- Identify any updates needed to better reflect current information on when and where future controls would occur based on the best available data from state rules, enforcement agreements, compliance plans, permits, and discussions/commitments from individual companies;
- Identify any updates needed to change the IPM determination that most oil/gas steam units would either retire early or have no operation in 2009 or 2018; and
- Identify any updates needed to change the IPM assignment and VISTAS post-processing of generic units with specific information on new capacity.

The changes specified by the S/L agencies are summarized in Table 2.1-3. A comparison of the IPM and VISTAS control assumptions for all coal-fired EGUs in the B&F inventories are summarized in Appendix I.

**Table 2.1-3 Additional Adjustments to IPM Results Specified by S/L Agencies for the B&F 2009/2018 EGU Inventories.**

| State | Plant Name and ID                | Unit    | Nature of Update/Correction  |
|-------|----------------------------------|---------|--|
| AL    | Multiple                         | ---     | Alabama suggest additional changes to the 2009 inventory resulting from their PM <sub>2.5</sub> modeling for the Birmingham area; however, these changes were identified too late to be incorporated in the VISTAS B&F inventory and ASIP modeling.  |
| FL    | Cape Canaveral                   | 1, 2    | The IPM 2009/2018 solution has either shut-down these oil-fired units or converted them to natural gas only. FLDEP has reason to believe that these units may continue to operate using oil. For some of these units, the owner or operator of the units have provided (and FLDEP approved) an estimate of how the units will be operated in 2009/2018. For others, to be conservative, FLDEP assumed that the oil-fired units will operate in 2009/2018 exactly as they operated in 2002. |
|       | Indian River                     | 1, 2, 3 |  |
|       | Port Everglades                  | 1 – 4   |  |
|       | Turkey Point                     | 1, 2    |  |
|       | Manatee                          | 1, 2    |  |
|       | Martin                           | 1, 2    |  |
|       | Riviera                          | 3, 4    |  |
|       | Anclote                          | 1, 2    |  |
|       | CD McIntosh                      | 1       |  |
|       | Northside B                      | 3       |  |
|       | Suwannee River                   | 3       |  |
|       | Gulf Power Schultz<br>ORISID=643 | 1 - 4   | Plant is expected to shut down and was taken out of the 2018 projection.   |
|       | Northside<br>ORISID=667          | 1A, 1B  | These units were estimated to be non operational by IPM in 2009 and 2018. FLDEP believes these units will continue to operate. Emissions were estimated using the 2002 base case emissions and growth factors for Northside units 1A and 2A. The changes for 2009 were made in the B&F inventory; the changes for 2018 were made in the Base G2 inventory.   |



|    |                        |              |   |
|----|------------------------|--------------|---|
|    | Crist<br>ORISID=641    | 4, 5<br>6, 7 | IPM did not assign scrubbers to these units. Scrubbers are currently being installed and should be operational in 2009. SO2 emissions reduced by 90%. |
| GA | Mitchell<br>ORISID=727 | SG03         | GADNR provided new emission projections for 2018.   |



**Table 2.1-3 (continued)**

| State | Plant Name and ID  | Unit                      | Nature of Update/Correction   |
|-------|--|---------------------------|---|
| GA    | Kraft<br>ORISID=733  | SG03                      | GADNR provided new emission projections for 2018.   |
|       | McIntosh<br>ORISID=6124  | SG01                      | GADNR provided new emission projections for 2018.   |
|       | Bowen<br>ORISID=703  | SG03<br>SG04              | GADNR provided new SO <sub>2</sub> emission projections for 2009 and 2018 based on a 95% control efficiency instead of 90%.   |
|       | Hammond<br>ORISID=708  | SG01 to<br>SG04           | GADNR provided new SO <sub>2</sub> emission projections for 2009 and 2018 based on a 95% control efficiency instead of 90%.   |
|       | Wansley<br>ORISID=6052   | SG01                      | GADNR provided new SO <sub>2</sub> emission projections for 2009 and 2018 based on a 95% control efficiency instead of 90%.   |
| KY    | John Sherman Cooper<br>ORISID=1384   | 1                         | IPM did not assign a scrubber to this unit in 2018. KDAQ believes that a scrubber should be assigned for 2018.  |
|       | John Sherman Cooper<br>ORISID=1384   | 2                         | IPM assigned SCR in 2009. KDAQ does not expect SCR by then; emissions changed to reflect low-NO <sub>x</sub> burner.  |
|       | Spurlock Station<br>ORISID=6041  | 1, 2                      | IPM did not assign scrubbers to these units in 2009. Per a consent decree and for BART, KDAQ specified a 90% reduction in SO <sub>2</sub> emissions from SO <sub>2</sub> controls.  |
|       | Big Sandy<br>ORISID=1353   | BSU1                      | IPM assigned a scrubber and SCR in 2009. KDAQ does not expect scrubber or SCR controls to be operational in 2009.   |
| MS    | Entergy Delta<br>Entergy Rex Brown<br>Entergy Baxter Wilson<br>Entergy Gerald Andrus | 1, 2<br>3, 4<br>1, 2<br>1 | The IPM 2009/2018 solution has either shut-down these oil-fired units or converted them to natural gas only. MSDEQ has reason to believe that these units may continue to operate using oil. To be conservative, MSDEQ assumed that the oil-fired units will operate in 2009/2018 exactly as they operated in 2002. |
| NC    | Cliffside<br>ORISID=2721   | 7                         | Removed Unit 7 from the 2018 inventory since the NC Utilities Commission disapproved the permit application.  |
|       | Cape Fear<br>ORISID=2798   | 1, 2                      | IPM assigned scrubbers to both units in 2018; NCDENR indicated that the facility projected Furnace Sorbent Injection. Increased SO <sub>2</sub> emissions to reflect change in control efficiency.  |
| SC    | 99 Oil-fired Units   |                           | The IPM 2009/2018 solution has either shut-down 99 oil-fired units or converted them to natural gas only. SCDHEC has reason to believe that these units may continue to operate using oil. To be conservative, SCDHEC assumed that the oil-fired units will operate in 2009/2018 exactly as they operated in 2002.  |
| SC    | Santee Cooper Cross<br>ORISID=130  | 4                         | For both 2009 and 2018, added in a new 660 MW Unit 4 (not in IPM) that is identical to the new Unit 3 (which was in IPM). Used the new Unit 4 to replace the IPM-generated 500 MW coal-fired Generic Unit (ORIS900545) located in the adjacent county.  |



**Table 2.1-3 (continued)**

| State | Plant Name and ID                                   | Unit    | Nature of Update/Correction  |
|-------|---|---------|--|
| SC    | New Santee Cooper Units Planned for Florence County | 1, 2    | Santee Cooper is planning two new coal burning units in Florence County, each at 660 MW. These units were not explicitly identified in IPM. Used these new units to replace three IPM-generated 500 MW coal-fired Generic Units (ORIS900145, ORIS900245, ORIS900345) in Darlington and Colleton Counties.  |
|       | USDOE SRS Area D ORISID=7652                        | 1       | Facility is replacing coal-fired boilers with three biomass boilers. Recalculated emissions for 2018 using emission factors for biomass combustion and IPM heat inputs.  |
| VA    | Dominion Chesapeake ORISID=3803                     | 1 - 4   | Changed SO2 emissions in 2009 and 2018 to reflect information from the facility on project SO2 controls.   |
|       | Dominion Southwest Virginia Project                 | 1       | For 2018, replace the IPM generated Generic Unit located in Russell county (ORISID=900251) to Wise County to reflect the planned Dominion facility going into Wise County. Used the potential to emit for the Dominion facility.   |
|       | Clinch River ORISID=3775                            | 1, 2, 3 | Changed emissions in 2018 to reflect requirements of Consent Order. The CO requires SNCR by 12/31/2009; IPM assigned SCR in 2018. The CO caps SO2 emissions at 16,300 tpy starting Jan 1, 2015.  |
| WV    | Pleasants Power Station ORISID=6004                 | 1, 2    | For both 2009 and 2018, Units 1 and 2 had SO2 emissions reduced to account for the facility's inclusion of previously bypassed 15% effluent stream to the scrubber. The control efficiency and emissions changed from 79.9% to 95% control.  |
|       | Nine Generic Units Generated by IPM                 |         | IPM placed 746 MW of new fossil fuel-fired generation in West Virginia - 173 MW coal-fired, 24 MW IGCC, and the remainder gas-fired. A 600 MW pulverized coal-fired EGU is under construction, scheduled to be online in 2010 [Longview]; a 98 MW CFB co-generation unit is permitted and expected to be built [Western Greenbrier]; and a 600 MW IGCC plant is currently in the permitting process [Mountaineer IGCC]. WVDEP decided to replace the IPM generic units in WV with the 3 units mentioned above. |
|       | Longview Site ID: 54- 061-0134                      | 1       | For 2018 inventory, added Longview which is permitted, under construction, and scheduled to be online in 2010. The unit is a 600 MW pulverized coal-fired unit with baghouse, LNB, SCR, and wet FGD as required controls. Used permitted emission rates for 2018.  |
|       | Western Greenbrier Site ID: 54-025-0066             | 1       | For 2018 inventory, added Western Greenbrier, which is permitted but not under construction. The unit is a 98 MW coal-fired CFB burning waste coal. Used permitted emission rates for 2018.  |
|       | Mountaineer IGCC Site ID: 54-053-00063              | 1       | For 2018 inventory, added Mountaineer IGCC, which has applied for a permit to construct a nominal 600 MW IGCC. Used emission rates from the permit application for 2018.   |
|       |   |         |  |



### 2.1.1.9 Conversion of MRPO BaseM 2009 EGU Data to SMOKE Input Format

To support ASIP PM<sub>2.5</sub> CAMx modeling of the future year 2009, Alpine Geophysics obtained and processed an emission inventory for the 5 MRPO states (Illinois, Indiana, Michigan, Wisconsin, and Ohio). Appendix x details the technical steps that were made as part of the conversion of the MRPO BaseM EGU files into IDA format for ASIP PM-2.5 CAMx modeling of the future year 2009.

### 2.1.1.10 Summary of 2009/2018 EGU Point Source Inventories

Tables 2.1-4 through 2.1-10 compare the Base G 2002 base year inventory to the Base F, Base G/G2 and B&F 2009/2018 projection inventories. The Base F projections rely primarily on the results of the IPM, while the Base G and B&F projections include the adjustments to the IPM results specified by the S/L agencies in the previous section.

**Table 2.1-4 EGU Point Source SO<sub>2</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 447,828          | 340,194                | 378,052                                      | 378,052   | 190,099                | 135,851                                       | 135,851   |
| FL    | 453,631          | 195,790                | 186,055                                      | 291,831   | 141,551                | 138,340                                       | 194,028   |
| GA    | 514,952          | 534,469                | 417,449                                      | 408,679   | 180,178                | 79,430  | 68,515  |
| KY    | 484,057          | 371,944                | 290,193                                      | 271,669   | 229,603                | 226,062                                       | 222,102   |
| MS    | 67,429           | 85,629                 | 76,579                                       | 76,646  | 27,230                 | 15,146  | 15,213  |
| NC    | 477,990          | 205,018                | 242,286                                      | 242,286   | 110,382                | 114,771                                       | 120,165   |
| SC    | 206,399          | 171,206                | 124,608                                      | 129,122   | 121,694                | 93,274  | 95,377  |
| TN    | 334,151          | 255,400                | 255,410                                      | 255,410   | 112,662                | 112,672                                       | 112,672   |
| VA    | 241,204          | 169,714                | 193,112                                      | 174,777   | 90,935                 | 114,255                                       | 98,988  |
| WV    | 516,084          | 226,127                | 277,489                                      | 268,952   | 124,466                | 105,935                                       | 106,199   |
|       | <b>3,743,725</b> | <b>2,555,491</b>       | <b>2,441,233</b>                             | <b>2,497,423</b>  | <b>1,328,800</b>       | <b>1,135,736</b>                              | <b>1,169,110</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.



**Table 2.1-5 EGU Point Source NO<sub>x</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 161,038          | 70,852                 | 82,305                                       | 82,305  | 42,769                 | 64,358  | 64,358  |
| FL    | 257,677          | 89,610                 | 86,165                                       | 132,535   | 77,080                 | 74,640  | 87,645  |
| GA    | 147,517          | 97,146                 | 98,497                                       | 98,497  | 58,095                 | 75,717  | 69,856  |
| KY    | 198,817          | 107,890                | 92,021                                       | 97,263  | 64,378                 | 64,378  | 64,378  |
| MS    | 43,135           | 11,475                 | 36,011                                       | 47,276  | 8,945                  | 10,271  | 21,535  |
| NC    | 151,853          | 66,431                 | 66,522                                       | 66,521  | 60,914                 | 62,353  | 61,110  |
| SC    | 88,241           | 43,817                 | 46,915                                       | 48,668  | 48,346                 | 51,456  | 51,751  |
| TN    | 157,307          | 41,767                 | 66,405                                       | 66,405  | 31,725                 | 31,715  | 31,715  |
| VA    | 86,886           | 63,220                 | 62,547                                       | 64,358  | 49,420                 | 66,074  | 64,344  |
| WV    | 230,977          | 63,510                 | 86,328                                       | 85,476  | 51,241                 | 51,241  | 51,474  |
|       | <b>1,523,448</b> | <b>655,718</b>         | <b>723,717</b>                               | <b>789,304</b>  | <b>492,913</b>         | <b>552,203</b>                                | <b>568,166</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-6 EGU Point Source VOC Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 2,295            | 2,441                  | 2,473  | 2,473   | 2,952                  | 2,952   | 2,952   |
| FL    | 2,524            | 1,867                  | 1,910  | 2,730   | 2,324                  | 2,422   | 3,047   |
| GA    | 1,244            | 1,571                  | 2,314  | 2,314   | 1,903                  | 2,841   | 2,816   |
| KY    | 1,487            | 1,369                  | 1,369  | 1,369   | 1,426                  | 1,426   | 1,426   |
| MS    | 648              | 406                    | 404  | 564   | 1,124                  | 1,114   | 1,274   |
| NC    | 988              | 974                    | 954  | 954   | 1,272                  | 1,345   | 1,302   |
| SC    | 470              | 660                    | 660  | 723   | 906                    | 906   | 931   |
| TN    | 926              | 932                    | 932  | 932   | 977                    | 976   | 976   |
| VA    | 754              | 685                    | 778  | 788   | 903                    | 1,014   | 980   |
| WV    | 1,180            | 1,342                  | 1,361  | 1,361   | 1,387                  | 1,387   | 1,387   |
|       | <b>12,516</b>    | <b>12,247</b>          | <b>13,155</b>                                | <b>14,208</b>   | <b>15,174</b>          | <b>16,383</b>                                 | <b>17,091</b>   |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.



**Table 2.1-7 EGU Point Source CO Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 11,279           | 14,948                 | 14,986                                       | 14,986  | 24,342                 | 24,342  | 24,342  |
| FL    | 57,113           | 45,391                 | 35,928                                       | 71,072  | 63,673                 | 54,146  | 85,495  |
| GA    | 9,712            | 20,066                 | 23,721                                       | 23,721  | 32,744                 | 44,476  | 44,269  |
| KY    | 12,619           | 15,812                 | 15,812                                       | 15,812  | 17,144                 | 17,144  | 17,144  |
| MS    | 5,303            | 5,078                  | 5,051  | 7,116   | 15,364                 | 15,282  | 17,348  |
| NC    | 13,885           | 15,141                 | 14,942                                       | 14,942  | 19,612                 | 20,223  | 19,870  |
| SC    | 6,990            | 11,135                 | 11,135                                       | 11,643  | 14,786                 | 14,786  | 14,975  |
| TN    | 7,084            | 7,221                  | 7,213  | 7,214   | 7,733                  | 7,723   | 7,723   |
| VA    | 6,892            | 11,869                 | 12,509                                       | 12,535  | 14,755                 | 15,564  | 18,850  |
| WV    | 10,341           | 11,328                 | 11,493                                       | 11,493  | 11,961                 | 11,961  | 12,397  |
|       | <b>141,218</b>   | <b>157,989</b>         | <b>152,790</b>                               | <b>190,535</b>  | <b>222,114</b>         | <b>225,647</b>                                | <b>262,413</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-8 EGU Point Source PM<sub>10</sub>-PRI Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 7,646            | 6,959                  | 6,969  | 6,969   | 7,822                  | 7,822   | 7,822   |
| FL    | 21,387           | 9,384                  | 9,007  | 20,182  | 10,310                 | 10,022  | 12,791  |
| GA    | 11,224           | 17,088                 | 17,891                                       | 17,891  | 18,329                 | 20,909  | 20,732  |
| KY    | 4,701            | 6,463                  | 6,463  | 6,463   | 6,694                  | 6,694   | 6,694   |
| MS    | 1,633            | 5,487                  | 4,957  | 5,182   | 7,624                  | 7,187   | 7,412   |
| NC    | 22,754           | 22,888                 | 22,152                                       | 22,152  | 33,742                 | 37,376  | 35,275  |
| SC    | 21,400           | 28,650                 | 19,395                                       | 20,041  | 37,864                 | 28,826  | 27,640  |
| TN    | 14,640           | 15,608                 | 15,608                                       | 15,608  | 15,941                 | 15,941  | 15,941  |
| VA    | 3,960            | 4,479                  | 5,508  | 5,606   | 12,744                 | 13,832  | 12,551  |
| WV    | 4,573            | 5,471                  | 5,657  | 5,657   | 6,349                  | 6,349   | 5,784   |
|       | <b>113,918</b>   | <b>122,477</b>         | <b>113,607</b>                               | <b>125,750</b>  | <b>157,419</b>         | <b>154,958</b>                                | <b>152,642</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.



**Table 2.1-9 EGU Point Source PM<sub>2.5</sub> -PRI Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 4,113            | 3,916                  | 3,921  | 3,921   | 4,768                  | 4,768   | 4,768   |
| FL    | 15,643           | 6,250                  | 5,910  | 14,790  | 7,171                  | 6,886   | 9,417   |
| GA    | 4,939            | 10,104                 | 10,907                                       | 10,907  | 11,403                 | 13,983  | 13,881  |
| KY    | 2,802            | 4,279                  | 4,279  | 4,279   | 4,434                  | 4,434   | 4,434   |
| MS    | 1,138            | 5,310                  | 4,777  | 4,996   | 7,469                  | 7,033   | 7,252   |
| NC    | 16,498           | 16,514                 | 15,949                                       | 15,949  | 26,966                 | 29,792  | 28,137  |
| SC    | 17,154           | 23,366                 | 16,042                                       | 16,548  | 32,180                 | 25,032  | 23,794  |
| TN    | 12,166           | 13,092                 | 13,092                                       | 13,092  | 13,387                 | 13,387  | 13,387  |
| VA    | 2,606            | 3,194                  | 4,067  | 4,165   | 11,101                 | 11,976  | 10,773  |
| WV    | 2,210            | 2,850                  | 2,940  | 2,940   | 3,648                  | 3,648   | 3,116   |
|       | <b>79,269</b>    | <b>88,875</b>          | <b>81,884</b>                                | <b>91,587</b>   | <b>122,527</b>         | <b>120,939</b>                                | <b>118,959</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-10 EGU Point Source NH<sub>3</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002             | 2009                   |  |   | 2018                   |   |   |
|-------|------------------|------------------------|--|---|------------------------|---|---|
| State | Actual<br>Base G | Base F<br>IPM<br>Based | Base G<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates | Base F<br>IPM<br>Based | Base G2<br>IPM with<br>State/local<br>Updates | B&F<br>IPM with<br>Additional<br>State/local<br>Updates |
| AL    | 317              | 359                    | 359  | 359   | 1,072                  | 1,072   | 1,072   |
| FL    | 234              | 1,659                  | 1,631  | 1,629   | 3,004                  | 2,976   | 2,976   |
| GA    | 83               | 686                    | 686  | 686   | 1,677                  | 1,677   | 1,677   |
| KY    | 326              | 400                    | 400  | 400   | 476                    | 476   | 476   |
| MS    | 190              | 333                    | 333  | 334   | 827                    | 827   | 827   |
| NC    | 54               | 423                    | 445  | 445   | 691                    | 663   | 663   |
| SC    | 142              | 343                    | 343  | 370   | 617                    | 617   | 625   |
| TN    | 204              | 227                    | 227  | 227   | 241                    | 241   | 241   |
| VA    | 127              | 632                    | 694  | 694   | 558                    | 622   | 606   |
| WV    | 121              | 330                    | 330  | 330   | 180                    | 180   | 143   |
|       | <b>1,798</b>     | <b>5,392</b>           | <b>5,448</b>                                 | <b>5,474</b>  | <b>9,343</b>           | <b>9,351</b>                                  | <b>9,306</b>  |

Note: Emission summaries above are based on SCCs 1-01-xxx-xx and 2-01-xxx-xx.



### **2.1.2 Non-EGU Emission Projections**

The general approach for assembling future year data was to use growth and control data consistent with the data used in EPA's Clean Air Interstate Rule analyses, supplement these data with available stakeholder input, and provide the results for stakeholder review to ensure credibility. We used the revised 2002 VISTAS base year inventory, based on the 2002 CERR submittals as the starting point for the non-EGU projection inventories. As described in Section 2.1.1.4, we split the point source inventory into EGU and non-EGU components. MACTEC performed the following activities to apply growth and control factors to the 2002 inventory to generate the 2009 and 2018 projection inventories:

- Obtained, reviewed, and applied the most current growth factors developed by EPA, based on forecasts from an updated Regional Economic Models, Inc. (REMI) model (version 5.5) and the latest *Annual Energy Outlook* published by the Department of Energy (DOE);
- Obtained, reviewed, and applied any State-specific or sector-specific growth factors submitted by stakeholders;
- Obtained and incorporated information regarding sources that have shut down after 2002 and set the emissions to zero in the projection inventories;
- Obtained, reviewed, and applied control assumptions for programs "on-the-books" and "on-the-way";
- Provided data files in NIF3.0 format and emission summaries in EXCEL format for review and comment; and
- Updated the database with corrections or new information from S/L agencies based on their review of the Base F 2009/2018 inventories.

The following sections discuss each of these steps.

#### **2.1.2.1 Growth assumptions for non-EGU sources**

This section describes the growth factor data used in developing the Base F inventory for 2009 and 2018, as well as the changes to the growth factor data made for the Base G inventory.

The growth factor data used in developing the Base F inventory were consistent with EPA's analyses for the CAIR rulemaking. These growth factors are fully documented in the reports entitled *Development of Growth Factors for Future Year Modeling Inventories* (dated April 30, 2004) and *CAIR Emission Inventory Overview* (dated July 23, 2004). Three sources of data were used in developing the growth factors for the Base F inventory:

- State-specific growth rates from the Regional Economic Model, Inc. (REMI) Policy Insight<sup>®</sup> model, Version 5.5 (being used in the development of the EGAS Version 5.0). The REMI socioeconomic data (output by industry sector, population, farm sector value



added, and gasoline and oil expenditures) are available by 4-digit SIC code at the State level.

- Energy consumption data from the DOE's Energy Information Administration's (EIA) *Annual Energy Outlook 2004, with Projections through 2025* for use in generating growth factors for non-EGU fuel combustion sources. These data include regional or national fuel-use forecast data that were mapped to specific SCCs for the non-EGU fuel use sectors (e.g., commercial coal, industrial natural gas). Growth factors for the residential natural gas combustion category, for example, are based on residential natural gas consumption forecasts that are reported at the Census division level. These Census divisions represent a group of States (e.g., the South Atlantic division includes eight southeastern States and the District of Columbia). Although one would expect different growth rates in each of these States due to unique demographic and socioeconomic trends, EIA's projects all States within each division using the same growth rate.
- Specific changes for sectors (e.g., plastics, synthetic rubber, carbon black, cement manufacturing, primary metals, fabricated metals, motor vehicles and equipment) where the REMI-based rates were unrealistic or highly uncertain. Growth projections for these sectors were based on industry group forecasts, Bureau of Labor Statistics (BLS) projections and Bureau of Economic Analysis (BEA) historical growth from 1987-2002.

In addition to the growth data described above, we received two sets of growth projections from VISTAS stakeholders.

The American Forest and Paper Association (AF&PA) supplied growth projections for the pulp and paper sector, which were applied to SIC 26xx Paper and Allied Products. The AF&PA projection factors are for the U.S. industry and apply to all States equally. The numbers come from the 15-year forecast for world pulp and recovered paper prepared by Resource Information Systems Inc. (RISI).

| SIC Code | Sector           | AF&PA Growth Factor |              |
|----------|------------------|---------------------|--------------|
|          |                  | 2002 to 2009        | 2002 to 2018 |
| 2611     | Pulp Mills       | 1.067               | 1.169        |
| 2621     | Paper Mills      | 1.067               | 1.169        |
| 2631     | Paperboard Mills | 1.067               | 1.169        |

For both the Base F and Base G inventories, we used the above AF&PA growth factors by SIC instead of the factors obtained from EPA's CAIR analysis.



For the Base F inventory, the NCDENR supplied recent projections for three key sectors in North Carolina where declining production was anticipated – SIC 22xx Textile Mill Products, 23xx Apparel and Other Fabrics, and 25xx Furniture and Fixtures. For the Base G inventory, NCDENR decided to use a growth factor of 1.0 for these SIC codes for both 2009 and 2018. Although NCDENR has data that shows a steady decline in these industries in NC, NCDENR wanted to maintain the emission levels at 2002 levels so the future emission reduction credits were available in the event that they are needed for nonattainment areas. The specific growth factors for these industrial sectors in North Carolina were:

| NCDENR Growth Factors for Specific Industrial Sectors |                           |        |        |        |        |
|---|---------------------------|--------|--------|--------|--------|
| SIC Code  | Industrial Sector         | 2009   |        | 2018   |        |
|   |                           | Base F | Base G | Base F | Base G |
| 22xx  | Textile Mill Products     | 0.6239 | 1.00   | 0.2792 | 1.00   |
| 23xx  | Apparel and Other Fabrics | 0.5867 | 1.00   | 0.2247 | 1.00   |
| 25xx  | Furniture and Fixtures    | 0.8970 | 1.00   | 0.7647 | 1.00   |

For the Base G inventory, we made one additional change to the growth factors. The Base F inventory relied on DOE's AEO2004 forecasts for projecting emissions for fuel-burning SCCs (applies mainly to ICI boilers 1-02-xxx-xx and 1-03-xxx-xx, as well as in-process fuel use). We replaced the AEO2004 data with the more recent AEO2006 forecasts (released in February 2006) to reflect changes in the energy market and to improve the emissions growth factors produced. We obtained the corresponding AEO2006 projection tables from DOE's web site located at <http://www.eia.doe.gov/oiaf/aeo/supplement/supref.html>. We developed tables comparing the growth factors based on AEO2004 and AEO2006. These comparison tables were reviewed by the S/L agencies. Based on this review, VISTAS decided to use the AEO2006 growth factors for fuel burning SCCs.

We used the EPA's EGAS model and updated the corresponding AEO2006 projection tables to create growth factors by SCC. We applied the updated growth factors to 2002 actual emissions and replaced the 2009 and 2018 emissions in NIF EM tables for the affected SCCs.

#### 2.1.2.2 Source Shutdowns

A few states indicated that significant source shutdowns have occurred since 2002 and that emissions from these sources should not be included in the future year inventories. These sources are identified in Table 2.1-11.



**Table 2.1-11 Summary of Source Shutdowns Incorporated in Base G Inventory.**

| State | Description of Source Shutdowns   |
|-------|---|
| AL    | None specified.   |
| FL    | The following facilities are shutdown and projected emissions were set to zero in 2009/2018.<br>0570075 CORONET INDUSTRIES, INC.<br>1050050 U S AGRI-CHEMICALS CORP.<br>1050051 U.S. AGRI-CHEMICALS CORPORATION<br>These facilities emitted 2,417 tons of SO <sub>2</sub> and 113 tons of NO <sub>x</sub> in 2002.  |
| GA    | Georgia indicated that the former Blue Circle (now LaFarge) facility in downtown Atlanta will likely shut down before 2009. The facility has two cement kilns, one of which is already shut down. The second kiln will continue to operate until the new facility in Alabama has enough milling capacity, after which the entire Atlanta facility will be completely closed down. This facility emitted 1,617 tons of SO <sub>2</sub> and 587 tons of NO <sub>x</sub> in 2002.  |
| KY    | None specified.   |
| MS    | AF&PA indicated that the International Paper Natchez Mill (28-001-2800100010) has shut down. This facility emitted 1,398 tons of SO <sub>2</sub> and 1,773 tons of NO <sub>x</sub> in 2002.<br><br>The Magnolia Resources - Pachuta Harmony Gas Plant (28-023-00031) is out of business and no longer holds an air permit. This facility emitted 2,257 tons of SO <sub>2</sub> and 134 tons of NO <sub>x</sub> in 2002.   |
| NC    | In Base F, two paper mills were identified as being shut down in the 2018 inventory. NCDENR indicated that these mills are not expected to close. The two facilities are Ecusta Business Development (37-175-3717500056) and International Paper (37-083-00007). Their emissions were added back into the Base G 2018 inventory.<br><br>BASF Corporation (37-021-724) in Buncombe County is currently operating but has plans to shut down in 2007. This facility emitted 461 tons of SO <sub>2</sub> and 266 tons of NO <sub>x</sub> in 2002.  |
| SC    | South Carolina provided a list of facilities that were identified as closing down on or after Jan. 1, 2003. The emissions for these facilities were set to zero in the 2009 and 2018 projection inventories. Emissions from these plants in 2002 were: 6,195 tons of SO <sub>2</sub> , 2,994 tons of NO <sub>x</sub> , and 2,836 tons of VOC. Most of the emissions were from one facility – Celanese Acetate (45-091-2440-0010) in York County.  |
| TN    | Davidson County (Nashville) indicated that significant source shutdowns have occurred since data were submitted for the 2002 CERR. Source number 47-037-00002 (Dupont) shut down a portion of their facility, which was permanently taken out of service. Source 47-037-00050 (Nashville Thermal Transfer Corp.) shut down their municipal waste combustors and replaced them with natural gas fired boilers with propane stand by.<br><br>Weyerhaeuser (AKA Willamette) Power Boiler 7 (47-163-0022, EU ID = 017) is being shut down. This emission unit emitted 4,297 tons of SO <sub>2</sub> and 1,443 tons of NO <sub>x</sub> in 2002.<br><br>Liberty Fibers (47-063-0197) in Hamblen County has recently shut down. This facility emitted 5,377 tons of SO <sub>2</sub> ; 2,057 tons of NO <sub>x</sub> ; and 9,059 tons of VOC in 2002. |
| VA    | Rock-Tenn (51-680-00097) received a permit dated 9/13/2003 which required the shutdown of units 1 and 2 by 2/27/2004. This permit was part of a netting exercise that allowed the installation of a new NG/DO boiler. These two units emitted 507 tons of SO <sub>2</sub> and 276 tons of NO <sub>x</sub> in 2002.  |
| WV    | None specified.   |



### 2.1.2.3 Control Programs applied to non-EGU sources

We used the same control programs for both the 2009 and 2018 non-EGU point inventory. Two control scenarios were developed: on-the-books (OTB) controls and on-the-way (OTW) controls. The OTB control scenario accounts for post-2002 emission reductions from promulgated federal, State, local, and site-specific control programs. The OTW control scenario accounts for proposed (but not final) control programs that are reasonably anticipated to result in post-2002 emission reductions. The methodologies used to account for the emission reductions associated with these emission control programs are discussed in the following sections.

**Table 2.1-12 Non-EGU Point Source Control Programs Included in 2009/2018 Projection Inventories.**

|  |
|--|
| <b>On-the-Books (Cut-off of July 1, 2004 for Base 1 adoption)</b>  |
| <ul style="list-style-type: none"> <li>▪ Atlanta / Northern Kentucky / Birmingham 1-hr SIPs</li> <li>▪ Industrial Boiler/Process Heater/RICE MACT (see Section 2.1.2.3.2)</li> <li>▪ NO<sub>x</sub> RACT in 1-hr NAA SIPs</li> <li>▪ NO<sub>x</sub> SIP Call (Phase I- except where States have adopted II already e.g. NC)</li> <li>▪ Petroleum Refinery Initiative (October 1, 2003 notice; MS &amp; WV)</li> <li>▪ RFP 3 percent Plans where in place for one hour plans</li> <li>▪ VOC 2-, 4-, 7-, and 10-year maximum achievable control technology (MACTO Standards)</li> <li>▪ Combustion Turbine MACT</li> </ul> |
| <b>On-the-Way</b>  |
| <ul style="list-style-type: none"> <li>▪ NO<sub>x</sub> SIP Call (Phase II – remaining States &amp; IC engines)</li> </ul>   |

#### 2.1.2.3.1 OTB - NO<sub>x</sub> SIP Call (Phase I)

Phase I of the NO<sub>x</sub> SIP call applies to certain large non-EGUs, including large industrial boilers and turbines, and cement kilns. States in the VISTAS region affected by the NO<sub>x</sub> SIP call have developed rules for the control of NO<sub>x</sub> emissions that have been approved by EPA. We reviewed the available State rules and guidance documents to determine the affected sources and ozone season allowances. We also obtained and reviewed information in the EPA's CAMD NO<sub>x</sub> Allowance Tracking System – Allowances Held Report. Since these controls are to be in effect by the year 2007, we capped the emissions for NO<sub>x</sub> SIP call affected sources at 2007 levels and carried forward the capped levels for the 2009/2018 future year inventories. Since the NO<sub>x</sub> SIP call allowances are given in terms of tons per ozone season (5 month period from May to



September), we calculated annual emissions by multiplying the 5-month allowances by a factor of 12 divided by 5.

#### **2.1.2.3.2 OTB - Industrial Boiler/Process Heater MACT**

EPA anticipates reductions in PM and SO<sub>2</sub> as a result of the Industrial Boiler/Process Heater MACT standard. The methods used to account for these reductions are the same as those used for the CAIR analysis. Reductions were included for existing units firing solid fuel (coal, wood, waste, biomass) which had a design capacity greater than 10 mmBtu/hr. EPA prepared a list of SCCs for solid fuel industrial and commercial/ institutional boilers and process heaters. We identified boilers greater than 10 mmBtu/hr using either the boiler capacity from the VISTAS 2002 inventory, or if the boiler capacity was missing, a default capacity based on a methodology developed by EPA for assigning default capacities based on SCC. The applied MACT control efficiencies were 4 percent for SO<sub>2</sub> and 40 percent for PM<sub>10</sub> and PM<sub>2.5</sub> to account for the co-benefit from installation of acid gas scrubbers and other control equipment to reduce HAPs. On June 8, 2007, the U.S. Court of Appeals for the District of Columbia Circuit vacated and remanded the NESHAP for Industrial, Commercial and Institutional Boilers and Process Heaters. VISTAS States decided to leave the emission reductions in place since they envision using a 112(j) strategy (e.g., the “MACT hammer”) to obtain similar levels of control)

#### **2.1.2.3.3 OTB - 2, 4, 7, and 10-year MACT Standards**

Maximum achievable control technology (MACT) requirements were also applied, as documented in the report entitled *Control Packet Development and Data Sources*, dated July 14, 2004. The point source MACTs and associated emission reductions were designed from Federal Register (FR) notices and discussions with EPA’s Emission Standards Division (ESD) staff. We did not apply reductions for MACT standards with an initial compliance date of 2001 or earlier, assuming that the effects of these controls are already accounted for in the 2002 inventories supplied by the States. Emission reductions were applied only for MACT standards with an initial compliance date of 2002 or greater.

#### **2.1.2.3.4 OTB Combustion Turbine MACT**

The projection inventories do not include the NO<sub>x</sub> co-benefit effects of the MACT regulations for Gas Turbines or stationary Reciprocating Internal Combustion Engines, which EPA estimates to be small compared to the overall inventory.

#### **2.1.2.3.5 OTB - Petroleum Refinery Initiative (MS and WV)**

Three refineries in the VISTAS region are affected by two October 2003 Clean Air Act settlements under the EPA Petroleum Refinery Initiative. The refineries are: (1) the Chevron



refinery in Pascagoula, MS; (2) the Ergon refinery in Vicksburg, MS; and (3) the Ergon refinery in Newell, WV.

The first consent decree pertained to Chevron refineries in Richmond and El Segundo, CA; Pascagoula, MS; Salt Lake City, UT; and Kapolei, HI. Actions required under the Consent Decree will reduce annual emissions of NO<sub>x</sub> by 3,300 tons and SO<sub>2</sub> by 6,300 tons. The consent decree requires a program to reduce NO<sub>x</sub> emissions from refinery heaters and boilers through the installation of NO<sub>x</sub> controls that meet at least an SNCR level of control. The refineries are to eliminate fuel oil burning in any combustion unit. The consent decree also requires reductions of NO<sub>x</sub> and SO<sub>2</sub> from the fluid catalytic cracking unit and control of acid gas flaring incidents. The consent decree does not provide sufficient information to calculate emission reductions for the FCCU or flaring at the Pascagoula refinery. Therefore, we calculated a general percent reduction for NO<sub>x</sub> and SO<sub>2</sub> by dividing the expected emission reductions at the five Chevron refineries by the total emissions from these five refineries (as reported in the 1999 NEI). This resulted in applying percent reductions of 45 percent for SO<sub>2</sub> and 28 percent for NO<sub>x</sub> to FCCU and flaring emissions at the Chevron Pascagoula refinery.

The second consent decree pertained to the Ergon-West Virginia refinery in Newell, WV; and the Ergon Refining facility in Vicksburg, MS. The consent decree requires the two facilities to implement a 6-year program to reduce NO<sub>x</sub> emission from all heaters and boilers greater than 40 mmBtu/hr, and to eliminate fuel oil burning in any combustion unit (except during periods of natural gas curtailment). Specifically, ultra low NO<sub>x</sub> burners are required on Boilers A and B at Newell, a low NO<sub>x</sub>-equivalent level of control for heater H-101 at Newell and heaters H-1 and H-3 at Vicksburg, and an ultra low NO<sub>x</sub> burner level of control for heater H-451 at Vicksburg.

#### **2.1.2.3.6 OTW - NO<sub>x</sub> SIP Call (Phase II)**

The final Phase II NO<sub>x</sub> SIP call rule was finalized on April 21, 2004. States had until April 21, 2005, to submit SIPs meeting the Phase II NO<sub>x</sub> budget requirements. The Phase II rule applies to large IC engines, which are primarily used in pipeline transmission service at compressor stations. We identified affected units using the same methodology as was used by EPA in the proposed Phase II rule (i.e., a large IC engine is one that emitted, on average, more than 1 ton per day during 2002). The final rule reflects a control level of 82 percent for natural gas-fired IC engines and 90 percent for diesel or dual fuel categories. As shown later in Table 2.1-12, several S/L agencies provided move specific information on the anticipated controls at the compressor stations. This information was used in the Base G inventory instead of the default approach used by EPA in the proposed Phase II rule.



#### **2.1.2.3.7 Clean Air Interstate Rule**

CAIR does not require or assume additional emission reductions from non-EGU boilers and turbines.

#### **2.1.2.4 Quality Assurance steps**

Final QA checks were run on the revised projection inventory data set to ensure that all corrections provided by the S/L agencies and stakeholders were correctly incorporated into the S/L inventories and that there were no remaining QA issues that could be addressed during the duration of the project. After exporting the inventory to ASCII text files in NIF 3.0, the EPA QA program was run on the ASCII files and the QA output was reviewed to verify that all QA issues that could be addressed were resolved

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, and to ensure that a full and complete inventory was developed for VISTAS. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the point source component of the VISTAS revised 2002 base year inventory:

- Facility level emission summaries were prepared and evaluated to ensure that emissions were consistent and reasonable. The summaries included base year 2002 emissions, 2009/2018 projected emissions accounting only for growth, 2009/2018 projected emissions accounting for both growth and emission reductions from OTB and OTW controls.

- State-level non-EGU comparisons (by pollutant) were developed for the base year 2002 emissions, 2009/2018 projected emissions accounting only for growth, 2009/2018 projected emissions accounting for both growth and emission reductions from OTB and OTW controls.

- Data product summaries and raw NIF 3.0 data files were provided to the VISTAS Emission Inventory Technical Advisor and to the Point Source, EGU, and non-EGU Special Interest Work Group representatives for review and comment. Changes based on these comments were reviewed and approved by the S/L point source contact prior to implementing the changes in the files.

- Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from Base F1 to Base F2.

#### **2.1.2.5 Additional Base G Updates and Corrections**

Table 2.1-13 summarizes the updates and corrections to the Base F inventory that were requested by S/L agencies and incorporated into the Base G 2009/2018 inventories.



**Table 2.1-13 Summary of Updates and Corrections Incorporated into the  
Base G 2009/2018 Non-EGU Inventories.**

| State | Nature of Update/Correction   |
|-------|---|
| AL    | Corrected the latitude and longitude for two facilities: Ergon Terminalling (Site ID: 01-073-010730167) and Southern Power Franklin (Site ID: 01-081-0036).   |
|       | Corrections to stack parameters at 10 facilities for stacks with parameters that do not appear to fall into the ranges typically termed "acceptable" for AQ modeling.   |
| FL    | Corrected 2009/2018 emission values for the Miami Dade RRF facility (Site ID: 12-086-0250348) based on revised 2002 emissions and application of growth control factors for 2009/2018.  |
| GA    | Hercules Incorporated (12-051-05100005) had an erroneous process id (#3) within emission unit id SB9 and was deleted. This removes about 6,000 tons of SO <sub>2</sub> from the 2009/2018 inventories.  |
|       | Provided a revised file of location coordinates at the stack level that was used to replace the location coordinated in the ER file.  |
|       | There are several sources that have updated their emissions from their BART eligible units. most of these changes were for fairly small (<50 tpy) sources.  |
| NC    | Made several changes to Base F inventory to correct the following errors:<br>1. Corrected emissions at Hooker Furniture (Site ID: 37-081-3708100910), release point G-29, to use the corrected values in 2002 and carry those same numbers through to 2009 and 2018 since NCDENR assumes zero growth for furniture industry.<br>2. Identified many stack parameters in the ER file that were unrealistic. Several have zero for height, diameter, gas velocity, and flow rate. NC used the procedures outlined in Section 8 of the document ""National Emission Inventory QA and Augmentation Report" to correct unrealistic stack parameters.<br>3. Identified truncated latitude and longitude values in Base F inventory. NC updated all Title V facility latitude and longitude that was submitted to EPA for those facilities in 2004. Smaller facilities with only two decimal places were not corrected.<br>4. Corrected 2018 VOC emissions for International Paper (3709700045) Emission Unit ID, G-12, to reflect changes to the 2002 inventory. |
|       | There are three Transcontinental Natural Gas Pipeline facilities in NC that are subject to the NO <sub>x</sub> SIP call. NCDENR took 2004 emissions and grew them to 2009 & 2018 and capped those units that are subject to the NO <sub>x</sub> SIP Call Rule. These facility IDs are 37-057-3705700300, 37-097-3709700225, and 37-157-3715700131.  |
|       | NCDENR applied NO <sub>x</sub> RACT to a two facilities located in the Charlotte nonattainment area. NCDENR provided 2009 & 2018 emissions for Philip Morris USA (37-025-3702500048) and Norandal USA (37-159-3715900057).  |
| SC    | Corrected PM species emission values. SC DHEC's initial CERR submittal reported particulate matter emissions using the PM-FIL, PM <sub>10</sub> -FIL, and PM <sub>2.5</sub> -FIL pollutant codes. In August 2005, SC DHEC indicated that data reported using the PM-FIL, PM <sub>10</sub> -FIL, and PM <sub>2.5</sub> -FIL pollutant codes should actually have been reported using the PM-PRI, PM <sub>10</sub> -PRI, and PM <sub>2.5</sub> -PRI codes. MACTEC performed a subsequent PM augmentation in April 2006 using the revised pollutant codes. These changes were reflected in the Base G 2009/2018 emission inventory.  |
|       | Specified that the Bowater Inc. facility (45-091-2440-0005) in York County conducted an expansion in 2003/2004 and plans a future expansion. SC provided updated emissions for 2009 and 2018 for this facility.   |



**Table 2.1-13. Continued.**

| State | Nature of Update/Correction   |
|-------|---|
| TN    | Updated 2009/2018 emissions for Eastman Chemical (47-163-0003) based on final (Feb. 2005) BART rule.  |
|       | Updated 2009/2018 emission inventory for the Bowater facility (47-107-0012) based on the facility's updated 2002 emission inventory update.   |
|       | Replaced 2009/2018 data from Hamilton County, Tennessee, using data from Hamilton County's CERR submittal as contained in EPA's 2002 NEI (in Base F, the inventory for Hamilton County was based on the draft VISTAS 2002 inventory, which in turn was based on the 1999 NEI); applied growth and control factors to revised 2002 inventory to generate emission projections for 2009/2018.                     |
|       | Updated 2009/2018 emissions for PCS Nitrogen Fertilizer LP (Site ID: 47-157-00146) based on the facility's updated 2002 emission inventory update.  |
|       | The 2002 NEI correctly reports the actual emissions for CEMEX (47-093-0008) after the NO <sub>x</sub> SIP call. There is no reason to suspect that that rate would change in 2008, 2009, or 2018. Emissions for 2009/2018 were set equal to 2002 emissions.   |
|       | In the Base F 2009/2018 inventories, NO <sub>x</sub> controls were applied for two units at Columbia Gulf Transmission (47-111-0004). There are no plans for controls at these units, EO3 and EO4. The assumed control efficiency of 82 percent was backed out in the 2009/2018 inventories.  |
| VA    | VADEQ provided 2009/2018 NO <sub>x</sub> emission estimates for NO <sub>x</sub> Phase II gas transmission sources at three Transco facilities (51-011-00011, 51-137-00027, 51-143-00120) which were used to replace the default NO <sub>x</sub> Phase II control assumptions for these facilities.  |
|       | VADEQ provided updated 2009/2018 NO <sub>x</sub> and SO <sub>2</sub> emissions based on new controls required by a November 2005 permit modification and netting exercise. The entire power plant facility is limited to 213 tons of NO <sub>x</sub> and 107 tons of SO <sub>2</sub> per year. The permit also allowed the installation of 3 new boilers, also under the 213 tons of NO <sub>x</sub> /year cap. |
| WV    | Updated 2009/2018 emissions for Steel of West Virginia (Site ID: 54-011-0009) based on the facility's updated 2002 emission inventory update.   |
|       | Made changes to several Site ID names due to changes in ownership   |
|       | Base F emissions were much too high for Weirton Steel (54-021-0029). WV believes that the source is very unlikely to emit the NO <sub>x</sub> SIP Call budgeted amounts in 2009 or 2018. WV provided revised emission estimates based on EGAS for 2009/2018.  |
|       | Made corrections to latitude/longitude and stack parameters at a few facilities for stacks with parameters that do not appear to fall into the ranges typically termed "acceptable" for AQ modeling.  |

### 2.1.2.6 Additional B&F Updates and Corrections

Table 2.1-14 summarizes the updates and corrections to the Base G non-EGU inventory that were requested by S/L agencies and incorporated into the B&F 2009/2018 non-EGU inventories. The changes were primarily related to better information on anticipated BART controls for specific facilities and emission units.



**Table 2.1-14 Summary of Updates and Corrections Incorporated into the  
B&F 2009/2018 Non-EGU Inventories.**

| State | Nature of Update/Correction  |
|-------|--|
| AL    | Alabama suggest additional changes to the 2009 inventory resulting from their PM <sub>2.5</sub> modeling for the Birmingham area; however, these changes were identified too late to be incorporated in the VISTAS B&F inventory and ASIP modeling.  |
|       | For 2018, incorporated emission changes due to BART controls at Exxon Mobil (Site ID: 01-053-0007), International Paper (Site ID: 01-079-0001), and Solutia (Site ID: 01-103-0010). International Paper (Site ID: 01-079-0001) Unit 004 to be shutdown in the 2018 inventory.  |
| FL    | For both 2009 and 2018, incorporated emission changes due to BART controls at Georgia Pacific (Site ID: 12-107-1070005) Unit 15.   |
| MS    | For 2018 only, changed SO <sub>2</sub> emission estimate for Pursue Energy (Site ID: 28-121-00036) based on the facility's estimates of the gas reserve at the site.   |
|       | For 2018 only, changed emission estimates for all pollutants at several emission units at the Chevron Pascagoula Refinery (Site ID: 28-059-00058) to reflect BART source reductions.   |
| SC    | For both 2009 and 2018, identified 15 facilities that have permanently closed. Emissions from these facilities set to zero for all pollutants.   |
| TN    | For both 2009 and 2018, identified seven facilities that have permanently closed. Emissions from these facilities were set to zero for all pollutants.   |
|       | For both 2009 and 2018, identified three emission units that have permanently closed. Emissions from these units were set to zero for all pollutants. 47-009-0130-002 (APAC – TN, Inc.-Harrison Construction – Asphalt plant), 47-009-0130-003 (APAC – TN, Inc.-Harrison Construction – Asphalt crusher), and 47-139-0004-001 (Intertrade - Number 6 acid plant)   |
|       | The following individual source will be shut down in 2010: 47-001-0020-002 (DOE, Y-12 – Boilers 1-4). For the 2018 inventory only, emissions from this unit were set to zero for all pollutants.   |
|       | A portion of 47-163-0003-020101 (Eastman, B-83-1 Stoker Boilers). This source previously consisted of 14 boilers (Boilers 11-24). Boilers 11-17 have been removed from service. Emissions for both 2009 and 2018 were reduced by 26.64%, based on the portion of the heat input capacity that is being removed from service.   |
|       | SO <sub>2</sub> emissions in 2018 from 47-163-0003-021520 (Eastman, B-253-1 Tangential PC Boilers) were reduced by 90% to reflect anticipated BART controls.   |
|       | Reduced SO <sub>2</sub> emissions at 47-157-00475 (Lucite International) in Shelby County as a result of a consent decree with U.S. EPA.   |
| VA    | Changed SO <sub>2</sub> emissions in 2009 and 2018 for thirteen facilities to reflect updated information from VADEQ regarding projected SO <sub>2</sub> controls.   |
| WV    | Weirton Steel (54-029-00001) and Wheeling Pittsburgh Steel (54-009-00002) have undergone significant, permanent process changes since 2002. WV DEP staff have consulted with facility staff and determined that calendar year 2004 emissions represent a better basis for future year emissions estimates. Therefore, WVDEP compiled emissions data from the 2004 inventory for these sources and applied the most current VISTAS growth factors to estimate emissions in 2009 and 2018. |

#### 2.1.2.7 Conversion of MRPO BaseM 2009 non-EGU Data to SMOKE Input Format

To support ASIP PM<sub>2.5</sub> CAMx modeling of the future year 2009, Alpine Geophysics obtained and processed an emission inventory for the 5 MRPO states (Illinois, Indiana, Michigan, Wisconsin, and Ohio). Appendix x details the technical steps that were made as part of the



conversion of the MRPO BaseM non-EGU files into IDA format for ASIP PM-2.5 CAMx modeling of the future year 2009.

### 2.1.2.8 Summary of the 2009/2018 non-EGU Point Source Inventories

Tables 2.1-15 through 2.1-21 summarize the revised 2009/2018 non-EGU point source inventories. The “growth only” column does not include the shutdowns (section 2.1.2.2) or control factors (section 2.1.2.3), only the growth factors described in section 2.1.2.1.

**Table 2.1-15 Non-EGU Point Source SO<sub>2</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002           | 2009           |                |                | 2018           |                |                |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F         | Base G         | B&F            |
| AL    | 96,481         | 100,744        | 101,246        | 101,246        | 112,703        | 113,224        | 103,303        |
| FL    | 65,090         | 68,549         | 65,511         | 62,651         | 79,015         | 75,047         | 71,810         |
| GA    | 53,778         | 61,535         | 53,987         | 53,987         | 68,409         | 59,349         | 59,349         |
| KY    | 34,029         | 35,470         | 36,418         | 36,418         | 38,806         | 40,682         | 40,682         |
| MS    | 35,960         | 27,488         | 25,564         | 25,564         | 40,195         | 26,678         | 25,674         |
| NC    | 44,123         | 48,751         | 42,536         | 42,536         | 50,415         | 46,314         | 46,314         |
| SC    | 53,518         | 55,975         | 48,324         | 47,193         | 56,968         | 53,577         | 52,410         |
| TN    | 79,604         | 89,149         | 70,678         | 64,964         | 96,606         | 77,247         | 56,682         |
| VA    | 63,903         | 63,075         | 62,560         | 58,039         | 69,776         | 68,909         | 57,790         |
| WV    | 54,070         | 54,698         | 55,973         | 55,598         | 60,137         | 62,193         | 61,702         |
|       | <b>580,556</b> | <b>605,434</b> | <b>562,797</b> | <b>548,196</b> | <b>673,030</b> | <b>623,220</b> | <b>575,716</b> |

**Note:** Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.



**Table 2.1-16 Non-EGU Point Source NO<sub>x</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002           | 2009           |                |                | 2018           |                |                |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F         | Base G         | B&F            |
| AL    | 83,310         | 69,676         | 69,409         | 69,409         | 79,101         | 78,318         | 77,960         |
| FL    | 45,156         | 44,859         | 46,020         | 47,125         | 50,635         | 51,902         | 52,959         |
| GA    | 49,251         | 51,556         | 50,353         | 50,353         | 57,323         | 55,824         | 55,824         |
| KY    | 38,392         | 36,526         | 37,758         | 37,758         | 40,363         | 41,034         | 41,034         |
| MS    | 61,526         | 55,877         | 56,397         | 56,398         | 62,132         | 61,533         | 61,252         |
| NC    | 44,929         | 44,877         | 34,767         | 34,768         | 47,200         | 37,801         | 37,802         |
| SC    | 42,153         | 42,501         | 40,019         | 39,368         | 44,480         | 44,021         | 43,331         |
| TN    | 64,344         | 63,431         | 57,883         | 57,514         | 70,313         | 63,453         | 62,519         |
| VA    | 60,415         | 51,335         | 51,046         | 51,001         | 56,876         | 55,945         | 55,734         |
| WV    | 46,612         | 40,433         | 38,031         | 38,023         | 44,902         | 43,359         | 43,280         |
|       | <b>536,088</b> | <b>501,071</b> | <b>481,683</b> | <b>481,715</b> | <b>553,325</b> | <b>533,190</b> | <b>531,695</b> |

Note: Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-17 Non-EGU Point Source VOC Emission Comparison for 2002/2009/2018.**

|       | 2002           | 2009           |                |                | 2018           |                |                |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F         | Base G         | B&F            |
| AL    | 47,037         | 46,660         | 46,644         | 46,644         | 54,268         | 54,291         | 54,290         |
| FL    | 38,471         | 36,675         | 36,880         | 36,882         | 42,787         | 42,811         | 42,813         |
| GA    | 33,709         | 34,082         | 34,116         | 34,116         | 40,267         | 40,282         | 40,282         |
| KY    | 44,834         | 47,648         | 47,785         | 47,785         | 55,564         | 55,861         | 55,861         |
| MS    | 43,204         | 37,921         | 37,747         | 37,747         | 45,769         | 45,338         | 45,335         |
| NC    | 61,182         | 70,464         | 61,925         | 61,925         | 76,027         | 70,875         | 70,875         |
| SC    | 38,458         | 38,273         | 35,665         | 34,403         | 44,545         | 43,656         | 41,987         |
| TN    | 84,328         | 89,380         | 74,089         | 73,498         | 111,608        | 93,266         | 92,456         |
| VA    | 43,152         | 43,620         | 43,726         | 43,725         | 53,065         | 53,186         | 53,186         |
| WV    | 14,595         | 14,012         | 13,810         | 13,043         | 16,632         | 16,565         | 15,582         |
|       | <b>448,970</b> | <b>458,735</b> | <b>432,387</b> | <b>429,768</b> | <b>540,532</b> | <b>516,131</b> | <b>512,667</b> |

Note: Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.



**Table 2.1-18 Non-EGU Point Source CO Emission Comparison for 2002/2009/2018.**

|       | 2002           | 2009           |                |                | 2018             |                  |                  |
|-------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F           | Base G           | B&F              |
| AL    | 174,271        | 176,899        | 180,369        | 180,369        | 194,280          | 201,794          | 201,663          |
| FL    | 81,933         | 83,937         | 87,037         | 87,661         | 96,642           | 96,819           | 97,438           |
| GA    | 130,850        | 147,362        | 147,427        | 147,427        | 168,570          | 167,904          | 167,904          |
| KY    | 109,936        | 121,727        | 122,024        | 122,024        | 139,121          | 139,437          | 139,437          |
| MS    | 54,568         | 58,023         | 57,748         | 57,749         | 67,764           | 66,858           | 65,884           |
| NC    | 50,576         | 53,955         | 53,744         | 53,744         | 61,127           | 62,197           | 62,197           |
| SC    | 56,315         | 62,144         | 60,473         | 59,934         | 71,318           | 68,988           | 68,415           |
| TN    | 115,264        | 123,844        | 119,665        | 119,216        | 146,407          | 140,942          | 140,556          |
| VA    | 63,796         | 67,046         | 68,346         | 68,326         | 74,364           | 76,998           | 76,846           |
| WV    | 89,879         | 100,248        | 100,045        | 93,839         | 119,318          | 119,332          | 111,302          |
|       | <b>927,388</b> | <b>995,185</b> | <b>996,878</b> | <b>990,289</b> | <b>1,138,911</b> | <b>1,141,269</b> | <b>1,131,642</b> |

**Note:** Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-19 Non-EGU Point Source PM<sub>10</sub>-PRI Emission Comparison for 2002/2009/2018.**

|       | 2002           | 2009           |                |                | 2018           |                |                |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F         | Base G         | B&F            |
| AL    | 25,240         | 25,450         | 25,421         | 25,421         | 29,973         | 29,924         | 29,889         |
| FL    | 35,857         | 39,363         | 39,872         | 39,947         | 46,573         | 46,456         | 46,492         |
| GA    | 21,610         | 23,509         | 23,103         | 23,103         | 27,781         | 27,273         | 27,273         |
| KY    | 16,626         | 17,164         | 17,174         | 17,174         | 20,142         | 20,153         | 20,153         |
| MS    | 19,472         | 19,200         | 19,245         | 19,244         | 22,952         | 22,859         | 22,837         |
| NC    | 13,838         | 14,738         | 13,910         | 13,910         | 15,816         | 15,737         | 15,737         |
| SC    | 14,142         | 17,631         | 13,370         | 12,959         | 20,197         | 15,139         | 14,674         |
| TN    | 35,174         | 37,040         | 34,833         | 34,581         | 45,168         | 42,280         | 41,999         |
| VA    | 13,252         | 13,043         | 13,048         | 13,046         | 15,150         | 15,112         | 15,111         |
| WV    | 17,503         | 17,723         | 17,090         | 11,882         | 21,699         | 21,735         | 14,202         |
|       | <b>212,714</b> | <b>224,861</b> | <b>217,066</b> | <b>211,267</b> | <b>265,451</b> | <b>256,668</b> | <b>248,367</b> |

**Note:** Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-20 Non-EGU Point Source PM<sub>25</sub>-PRI Emission Comparison for 2002/2009/2018.**



|       | 2002           | 2009           |                |                | 2018           |                |                |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | Base G         | Base F         | Base G         | B&F            | Base F         | Base G         | B&F            |
| AL    | 19,178         | 19,256         | 19,230         | 19,230         | 22,628         | 22,598         | 22,584         |
| FL    | 30,504         | 33,387         | 33,946         | 34,019         | 39,436         | 39,430         | 39,486         |
| GA    | 17,462         | 19,361         | 18,982         | 18,982         | 22,882         | 22,416         | 22,416         |
| KY    | 11,372         | 11,680         | 11,686         | 11,686         | 13,734         | 13,739         | 13,739         |
| MS    | 9,906          | 9,144          | 9,199          | 9,199          | 10,768         | 10,739         | 10,719         |
| NC    | 10,500         | 11,192         | 10,458         | 10,458         | 11,927         | 11,825         | 11,825         |
| SC    | 10,245         | 13,101         | 9,390          | 9,048          | 14,947         | 11,086         | 10,699         |
| TN    | 27,807         | 29,302         | 27,577         | 27,367         | 35,750         | 33,532         | 33,293         |
| VA    | 10,165         | 9,980          | 9,988          | 9,988          | 11,604         | 11,594         | 11,605         |
| WV    | 13,313         | 13,364         | 12,769         | 7,638          | 16,474         | 16,516         | 9,124          |
|       | <b>160,452</b> | <b>169,767</b> | <b>163,225</b> | <b>157,615</b> | <b>200,150</b> | <b>193,475</b> | <b>185,490</b> |

**Note:** Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.

**Table 2.1-21 Non-EGU Point Source NH<sub>3</sub> Emission Comparison for 2002/2009/2018.**

|       | 2002          | 2009          |               |               | 2018          |               |               |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| State | Base G        | Base F        | Base G        | B&F           | Base F        | Base G        | B&F           |
| AL    | 1,883         | 2,132         | 2,132         | 2,132         | 2,464         | 2,464         | 2,464         |
| FL    | 1,423         | 1,544         | 1,544         | 1,544         | 1,829         | 1,829         | 1,829         |
| GA    | 3,613         | 3,963         | 3,963         | 3,963         | 4,799         | 4,797         | 4,797         |
| KY    | 674           | 733           | 760           | 760           | 839           | 901           | 901           |
| MS    | 1,169         | 667           | 668           | 668           | 761           | 764           | 764           |
| NC    | 1,180         | 1,288         | 1,285         | 1,285         | 1,422         | 1,466         | 1,466         |
| SC    | 1,411         | 1,578         | 1,578         | 1,578         | 1,779         | 1,779         | 1,779         |
| TN    | 1,613         | 1,861         | 1,841         | 1,840         | 2,240         | 2,214         | 2,213         |
| VA    | 3,104         | 3,050         | 3,049         | 3,045         | 3,613         | 3,604         | 3,604         |
| WV    | 332           | 341           | 341           | 314           | 416           | 413           | 378           |
|       | <b>16,402</b> | <b>17,157</b> | <b>17,161</b> | <b>17,129</b> | <b>20,162</b> | <b>20,231</b> | <b>20,195</b> |

**Note:** Emission summaries above include all SCCs except 1-01-xxx-xx and 2-01-xxx-xx.



## **2.2 Area Sources**

This section describes the methodology used to develop the 2009 and 2018 projection Base F and Base G projection inventories. This section describes two approaches to these projections. Separate methods for projecting emissions were used for non-agricultural (stationary area) and agricultural area sources (predominantly NH<sub>3</sub> emissions). The two methods used for these sectors are described in the sections that follow.

### **2.2.1 Stationary area sources**

The general approach used to calculate Base F projected emissions for stationary area sources was as follows:

1. Use the VISTAS Base F 2002 base year inventory as the starting point for projections.
2. MACTEC then worked with the VISTAS States (via the Stationary Area Source SIWG) to obtain any State specific growth factors and/or future controls from the States to use in developing the projections.
3. MACTEC then back calculated uncontrolled emissions from the Base F 2002 base year inventory based on existing controls reported in the 2002 Base F base year inventory.
4. Controls (including control efficiency, rule effectiveness and rule penetration) provided by the States or originally developed for use in estimating projected emissions for U.S. EPA's Heavy Duty Diesel (HDD) rulemaking emission projections and used in the Clean Air Interstate Rule (CAIR) projections were then used to calculate controlled emissions. State submitted controls had precedence over the U.S. EPA developed controls.
5. Growth factors supplied from the States or the U.S. EPA's CAIR emission projections were then applied to project the controlled emissions to the appropriate year. In some cases EGAS Version 5 growth factors were used if no growth factor was available from either the States or the CAIR growth factor files. The use of EGAS Version 5 growth factors was on a case-by-case basis wherever State-supplied or CAIR factors were not available for SCCs found in the 2002 Base F inventory. Use of the EGAS factors was necessitated due to the CERR submittals used in constructing the Base F 2002 inventory. Use of the CERR data resulted in SCCs that were not found in the CAIR inventory and if no State-supplied growth factor was provided required the use of an EGAS growth factor.
6. MACTEC then provided the final draft Base F projection inventory for review and comment by the VISTAS States.

For Base F stationary area sources, no State-supplied growth or control factors were provided. Thus for all of the sources in this sector of the inventory, growth and controls for Base F were



applied based on controls initially identified for the CAIR and growth factors identified for the CAIR projections.

For the Base G projections, the Base G 2002 base year inventory (see section 1.2.3) was used as a starting point. States provided some updated future controls but growth factors used were identical to those used for Base F. The revised controls for Base G were largely for new sources added as part of the 2002 Base F comments. The calculation of Base G projections was identical to the six steps outlined above with the exception of revisions made to prescribed fire for 2009 and 2018 and for the State of North Carolina. North Carolina provided 2009 and 2018 updated emission files used to update the emissions for each year for several source categories. However not all sources in the inventory were included in these NC updates. As a consequence, the final Base G 2009 and 2018 inventory for NC included emissions updated using the NC supplied files and emissions developed using growth and control factors as outlined above.

In a few cases, additional growth factors had to be added for source categories that had not initially been included in the Base F inventory. These growth factors were obtained from EGAS 5.0. Finally updates to growth factors from EGAS 5.0 were made for fuel fired emission sources. The updated growth factors reflected the most recent data from the Department of Energy's Annual Energy Outlook (AEO). These data were used to reflect changes in energy efficiency resulting from new or updated fuel firing technologies.

#### **2.2.1.1 Stationary area source controls**

The controls obtained by MACTEC for the HDD rulemaking were controls for the years 2007, 2020, and 2030. Since MACTEC was preparing 2009 and 2018 projections, control values for intermediate years were prepared using a straight line interpolation of control level between 2007 and 2020. The equation used to calculate the control level was as follows:

$$CE = (((2020\ CE - 2007\ CE)/13)*YRS) + 2007\ CE$$

*Where:*

CE = Control Efficiency for either 2009 or 2018

2020 CE = HDD Control Efficiency value for 2020

2007 CE = HDD Control Efficiency value for 2007

13 = Number of years between 2020 and 2007

YRS = Number of years beyond 2007 to VISTAS Projection year



For 2009 the value of YRS would be two (2) and for 2018 the value would be eleven (11). Control efficiency values were determined for VOC, CO and PM. Rule penetration values for each year in the HDD controls tables obtained by MACTEC were always 100 percent so those values were maintained for the VISTAS projections.

Prior to performing the linear interpolation of the controls, MACTEC evaluated controls from the CAIR projections (NOTE: Initially the controls came from the IAQTR projections, however the controls used in CAIR were virtually identical to those in IAQTR). Those controls appeared to be identical to those used for the HDD rulemaking. In addition, MACTEC received some additional information on some controls for area source solvents (email from Jim Wilson, E.H. Pechan and Associates, Inc. to Gregory Stella, VISTAS Emission Inventory Technical Advisor, 3/5/04) that were used to check against the controls in the HDD rulemaking files. Where those controls proved to be more stringent than the HDD values, MACTEC updated the control file with those values (which were then used in the interpolation to develop 2009 and 2018 values). Finally, for VOC the HDD controls were initially provided at the State-county-SCC level. However, upon direction from the VISTAS Emission Inventory Technical advisor, the VOC controls were consolidated at the SCC level and applied across all counties within the VISTAS region (email from Gregory Stella, Alpine Geophysics, 3/3/2004) to ensure that no controls were missed due to changes in county FIPS codes and/or SCC designations between the time the HDD controls were developed and 2002.

The equation below indicates how VOC emissions were projected for stationary area sources.

$$VOC_{2018} = VOC_{2002} \times \left( 1 - \left( \frac{VOC\_CE_{2018}}{100} \right) \left( \frac{VOC\_RE_{2018}}{100} \right) \left( \frac{VOC\_RP_{2018}}{100} \right) \right)$$

Where:

$VOC_{2018}$  = VOC emissions for 2018

$VOC_{2002}$  = Uncontrolled VOC emissions for 2002

$VOC\_CE_{2018}$  = Control Efficiency for VOC (in this example for 2018)

$VOC\_RE_{2018}$  = Rule Effectiveness for VOC (in this example for 2018)

$VOC\_RP_{2018}$  = Rule Penetration for VOC (in this example for 2018)

A similar equation could be constructed for either PM or CO. It should be noted that the control efficiencies calculated based on the HDD rulemaking were only applied if they were greater than any existing 2002 base year controls. No controls were found for SO<sub>2</sub> or NO<sub>x</sub> area sources.



In the pre-Base F 2018 emission estimates, an energy efficiency factor was applied to energy related stationary area sources. The energy efficiency factor was applied along with the growth factor to account for both growth and changes in energy efficiency. That factor was not applied to the Base F projections since information supplied by U.S. EPA related to the CAIR growth factors indicated that growth values for those categories were derived from U.S. Department of Energy (DOE) and were felt to account for changes in growth and projected energy efficiency. For the Base G inventory, these energy efficiency factors were re-instituted and used in conjunction with EGAS 5.0 growth factors in a manner identical to that used for the pre-Base F inventories. The energy efficiency factors were derived from U.S. DOE's Annual Energy Outlook report.

One significant difference between the Base F and Base G control factors was for counties and independent cities in northern Virginia. Several counties and independent cities in northern Virginia are subject to Ozone Transport Commission rules. For these counties and independent cities, controls for portable fuel containers, mobile equipment repair/refinishing, consumer products, solvent metal cleaning, and the architectural and industrial maintenance rules were added. The counties/independent cities (FIPS code) included in the changes for Base G were: Alexandria City (51510), Arlington (51013), Fairfax City (51600), Fairfax (51059), Falls Church City (51610), Fredericksburg City (51630), Loudoun (51107), Manassas City (51683), Manassas Park City (51685), Prince William County (51153), Spotsylvania (51177), and Stafford (51179). Not all OTC rules applied to all counties/cities.

#### **2.2.1.2 Stationary area source growth**

As indicated above, growth factors for the Base F and Base G 2009 and 2018 inventories were obtained from the U.S. EPA and are linear interpolations of the growth factors used for the Clean Air Interstate Rule (CAIR) projections. The growth factors for the CAIR obtained by MACTEC were developed using a base year of 2001 and provided growth factors for 2010 and 2015. MACTEC used the TREND function in Microsoft Excel™ to calculate 2002, 2009 and 2018 values from the 2001, 2010 and 2015 values. The TREND function provides a linear interpolation of intermediate values from a known series of data points (in this case the 2001, 2010 and 2015 values) based on the equation for a straight line. These values were calculated at the State and SCC level with the exception of paved road emissions (SCC = 2294000000). The growth factors for paved roads were available in the CAIR data set at the State, county and SCC level so they were applied at that level.

Prior to utilizing the growth factors from the CAIR projections, MACTEC confirmed that all SCCs found in the VISTAS 2002 base year inventory were in the CAIR file (for Base F the starting point was the version 3.1 2002 base year inventory, for Base G the starting point was the Base F 2002 base year inventory). Some SCCs were not found in the CAIR file. For those SCCs,



the growth factors used were derived in one of five ways. First where possible, they were taken from a beta version of EGAS 5.0. In other cases, the growth factor was set to one (i.e., no growth). In other cases, a similar SCC that had a CAIR growth factor was used. In a few cases a growth factor based on an average CAIR growth at the 6 digit SCC level was calculated. Finally a number of records used population as the growth surrogate. For the Base G inventory, CAIR growth factors for fuel fired area sources were replaced with EGAS 5.0 growth factors (used in conjunction with AEO fuel efficiency factors). A comment field in the growth factor file was used to mark those records that were not taken directly from the CAIR projection growth factors.

#### **2.2.1.3 Differences between 2009/2018**

Methodologically, there was no difference in the way that 2009 and 2018 emissions were calculated for stationary area sources. The individual control and growth factors were different (due to the linear interpolation used to calculate the values) but the calculation methods were identical. This applies to both Base F and Base G.

The only exception to this is for the State of North Carolina for Base G. North Carolina provided an emissions update file used to override calculated projections for a number of area source categories. The values in these files (provided for both 2009 and 2018) were used to overwrite the calculated projected emissions in the final NIF file.

#### **2.2.2 Agricultural area sources**

The general approach used to calculate projected emissions for agricultural area sources (predominantly NH<sub>3</sub> emission sources) was as follows:

1. MACTEC used the version 3.1 2002 base year inventory data (which was based on the CMU ammonia model version 3.6).
2. MACTEC worked with the VISTAS States (via the Agricultural Sources SIWG) to obtain any State specific growth and/or future controls from the States for agricultural sources.
3. Since the base year emissions were uncontrolled, and no future controls for these sources were identified, MACTEC projected the agricultural emissions using State-specific growth if available, otherwise the U.S. EPA's Interstate Air Quality Transport Rule (IAQTR)/Ammonia inventory was used to develop the growth factors used to project the revised 2002 base year inventory to 2009 or 2018. Since the IAQTR inventory was only used to construct growth factors rather than using the emissions directly, no updated growth factors were prepared from the CAIR inventory values.



4. MACTEC then provided the final draft inventory for review and comment by the VISTAS States.

No change in the agricultural area source emission projections were made between Base F and Base G other than the removal of wild animal and human perspiration as a result of their removal from the 2002 base year file for Base G.

#### **2.2.2.1 Control assumptions for agricultural area sources**

No controls were identified either by the individual VISTAS States or in the information provided in the EPA's IAQTR or CAIR Ammonia inventory documents. Thus all projected emissions for agricultural area sources represent simple growth with no controls.

#### **2.2.2.2 Growth assumptions for agricultural area sources**

Growth for several agricultural area source livestock categories was developed using the actual emission estimates developed by the EPA as part of the NEI. That work included projections for the years 2002, 2010, 2015, 2020, and 2030. The actual emissions themselves were not used other than to develop growth factors since the 2002 NEI upon which the growth projections were based was prepared prior to the release of the 2002 Census of Agriculture data which was included in the CMU model (version 3.6) used to develop the Base F 2002 VISTAS base year inventory. Thus VISTAS Agricultural Sources SIWG decided to use the NEI ammonia inventory projected emissions to develop the 2009 and revised 2018 growth factors used to project emission for VISTAS. Details on the NEI inventory and projections can be found at:

[http://www.epa.gov/ttn/chief/ap42/ch09/related/nh3inventorydraft\\_jan2004.pdf](http://www.epa.gov/ttn/chief/ap42/ch09/related/nh3inventorydraft_jan2004.pdf). The actual data files for the projected emissions can be found at:

[http://www.epa.gov/ttn/chief/ap42/ch09/related/nh3output01\\_23\\_04.zip](http://www.epa.gov/ttn/chief/ap42/ch09/related/nh3output01_23_04.zip).

In order to use the NEI projected emissions as growth factors, several steps were required. These steps were as follows:

1. NEI projected emissions were only available for the years 2002, 2010, 2015, 2020, and 2030, thus the first task was to calculate intermediate year emissions for 2009 and 2018. These values were calculated based on linear interpolation of the existing data.
2. Once the intermediate emissions were calculated, MACTEC developed emission ratios to provide growth factors for 2009 and 2018. Ratios of emissions were established relative to the 2002 NEI emissions.
3. Once the growth factors were established, MACTEC then evaluated whether or not all agricultural SCCs within the revised 2002 base year inventory had corresponding



growth factors. MACTEC established that not all SCCs within the base year inventory had growth factors. These SCCs fell into one of two categories:

- b. SCCs that had multiple entries in the NEI but only a single SCC in the 2002 VISTAS base year inventory. The NEI was established using a process model and for some categories of animals, emissions were calculated for several aspects of the process. The CMU model version 3.6 which was the basis for the VISTAS 2002 Base F inventory did not use a process model. As a consequence a mapping of SCCs in the NEI projections and corresponding SCCs in the CMU inventory was made and for those SCCs an average growth factor was calculated from the NEI projections for use with the corresponding SCC in the CMU based 2002 Base F inventory.
  - c. There were also State, county, SCC trios in the 2002 VISTAS Base F inventory which had no corresponding emissions in the NEI files. For these instances, MACTEC first developed State level average growth factors from the NEI projections for use in growing these records. Even after developing State level average growth factors there were still some State/SCC pairs that did not have matching growth. For these records, MACTEC developed VISTAS regional average growth factors at the SCC level from the NEI data.
- 1. Once all of the growth factors were developed, they were used to project the emissions to 2009 and 2018. Growth factors were first applied at the State, county and SCC level. Then remaining records were grown with the State/SCC specific growth factors. Finally, any remaining ungrown records were projected at the SCC level using the VISTAS regional growth factor.

For the livestock categories, the NEI emission projections only had data for beef and dairy cattle, poultry and swine. Thus for other livestock categories and for fertilizers alternative growth factors were required.

The growth factors for other livestock categories and fertilizers were obtained from growth factors used for the IAQTR projections made by the U.S. EPA. The methodology for these categories was identical to that used for dairy, beef, poultry and swine with the exception that State/SCC and VISTAS/SCC growth factors were not required for these categories since the IAQTR data contained State, county and SCC level growth factors. The IAQTR data provided growth factors for 1996, 2007, 2010, 2015 and 2020. Linear interpolation was used to develop the growth factors for the intermediate years 2009 and 2018 required for the VISTAS projections.



There were a few exceptions to the methods used for projecting agricultural sources for the VISTAS projections. These exceptions were:

1. All swine emissions for North Carolina were maintained at 2002 levels for each projection year to capture a moratorium on swine production in that State.
2. Ammonia growth factors for a few categories (mainly feedlots) were assigned to be the same as growth factors for PM emissions from the NEI projections. This assignment was made because the CMU model showed emissions from these categories but the NEI projections did not show ammonia emissions but did show PM emissions.
3. No growth factors were found for horse and pony emissions. These emissions were held constant at 2002 levels.

There was no change in this method between Base F and Base G. Thus Base F and Base G agricultural emissions are the same in each inventory. Future efforts on the agricultural emissions category should look at any changes made to the CMU model to reflect the model farm approach used by EPA in their inventory plus any updated growth factors that may be more recent than the EPA inventory used to develop growth estimates for Base F/G.

#### **2.2.2.2.1 Differences between 2009/2018**

Methodologically, there was no difference in the way that 2009 and 2018 emissions were calculated for agricultural area sources. The growth factors were different (due to the linear interpolation used to calculate the values) but the calculation methods were identical. In addition there was no difference between Base F and Base G for this category. Thus Base F and Base G agricultural emissions are the same in each inventory.

Tables 2.2-1 show the differences between Base F and Base G emissions for all area sources (including agricultural sources but excluding fires) for the 2002 base year and 2009 and 2018 by State and pollutant.



**Table 2.2-1 2002 Base Year Emissions and Percentage Difference for Base F and Base G  
(based on actual emissions).**

| Actual Area 2002 - Base G  |         |         |        |          |          |           |         |
|--|---------|---------|--------|----------|----------|-----------|---------|
| State  | CO      | NH3     | NOX    | PM10-PRI | PM25-PRI | SO2       | VOC     |
| AL   | 83,958  | 58,318  | 23,444 | 393,588  | 56,654   | 52,253    | 182,674 |
| FL   | 71,079  | 37,446  | 28,872 | 443,346  | 58,878   | 40,491    | 404,302 |
| GA   | 108,083 | 80,913  | 36,142 | 695,414  | 103,794  | 57,559    | 299,679 |
| KY   | 66,752  | 51,135  | 39,507 | 233,559  | 45,453   | 41,805    | 95,375  |
| MS   | 37,905  | 58,721  | 4,200  | 343,377  | 50,401   | 771       | 131,808 |
| NC   | 345,315 | 161,860 | 36,550 | 280,379  | 64,052   | 5,412     | 237,926 |
| SC   | 113,714 | 28,166  | 19,332 | 260,858  | 40,291   | 12,900    | 161,000 |
| TN   | 89,828  | 34,393  | 17,844 | 212,554  | 42,566   | 29,917    | 153,307 |
| VA   | 155,873 | 43,905  | 51,418 | 237,577  | 43,989   | 105,890   | 174,116 |
| WV   | 39,546  | 9,963   | 12,687 | 115,346  | 21,049   | 11,667    | 60,443  |
| Base F   |         |         |        |          |          |           |         |
| AL   | 83,958  | 59,486  | 23,444 | 393,093  | 73,352   | 47,074    | 196,538 |
| FL   | 105,849 | 44,902  | 29,477 | 446,821  | 81,341   | 40,537    | 439,019 |
| GA   | 107,889 | 84,230  | 36,105 | 695,320  | 133,542  | 57,555    | 309,411 |
| KY   | 66,752  | 51,097  | 39,507 | 233,559  | 52,765   | 41,805    | 100,174 |
| MS   | 37,905  | 59,262  | 4,200  | 343,377  | 63,135   | 771       | 135,106 |
| NC   | 373,585 | 164,467 | 48,730 | 303,492  | 69,663   | 7,096     | 346,060 |
| SC   | 113,714 | 29,447  | 19,332 | 260,858  | 51,413   | 12,900    | 187,466 |
| TN   | 89,235  | 35,571  | 17,829 | 211,903  | 49,131   | 29,897    | 161,069 |
| VA   | 155,873 | 46,221  | 51,418 | 237,577  | 52,271   | 9,510     | 129,792 |
| WV   | 39,546  | 10,779  | 12,687 | 115,346  | 25,850   | 11,667    | 61,490  |
| Percentage Difference (negative values means Base G increased from Base F) |         |         |        |          |          |           |         |
| AL   | 0.00%   | 1.96%   | 0.00%  | -0.13%   | 22.76%   | -11.00%   | 7.05%   |
| FL   | 32.85%  | 16.61%  | 2.05%  | 0.78%    | 27.62%   | 0.12%     | 7.91%   |
| GA   | -0.18%  | 3.94%   | -0.10% | -0.01%   | 22.28%   | -0.01%    | 3.15%   |
| KY   | 0.00%   | -0.07%  | 0.00%  | 0.00%    | 13.86%   | 0.00%     | 4.79%   |
| MS   | 0.00%   | 0.91%   | 0.00%  | 0.00%    | 20.17%   | 0.00%     | 2.44%   |
| NC   | 7.57%   | 1.59%   | 24.99% | 7.62%    | 8.05%    | 23.74%    | 31.25%  |
| SC   | 0.00%   | 4.35%   | 0.00%  | 0.00%    | 21.63%   | 0.00%     | 14.12%  |
| TN   | -0.67%  | 3.31%   | -0.09% | -0.31%   | 13.36%   | -0.07%    | 4.82%   |
| VA   | 0.00%   | 5.01%   | 0.00%  | 0.00%    | 15.84%   | -1013.45% | -34.15% |
| WV   | 0.00%   | 7.57%   | 0.00%  | 0.00%    | 18.57%   | 0.00%     | 1.70%   |



**Table 2.2-2 2009 Projection Year Emissions and Percentage Difference for Base F and Base G (based on actual emissions).**

| <b>Actual Area 2009 - Base G</b>  |           |            |            |                 |                 |            |            |
|---|-----------|------------|------------|-----------------|-----------------|------------|------------|
| <b>State</b>  | <b>CO</b> | <b>NH3</b> | <b>NOX</b> | <b>PM10-PRI</b> | <b>PM25-PRI</b> | <b>SO2</b> | <b>VOC</b> |
| <b>AL</b>   | 66,654    | 64,268     | 23,930     | 413,020         | 58,699          | 48,228     | 143,454    |
| <b>FL</b>   | 57,011    | 38,616     | 28,187     | 503,230         | 64,589          | 36,699     | 420,172    |
| <b>GA</b>   | 94,130    | 89,212     | 37,729     | 776,411         | 112,001         | 57,696     | 272,315    |
| <b>KY</b>   | 57,887    | 53,005     | 42,088     | 242,177         | 46,243          | 43,087     | 94,042     |
| <b>MS</b>   | 27,184    | 63,708     | 4,249      | 356,324         | 51,661          | 753        | 124,977    |
| <b>NC</b>   | 301,163   | 170,314    | 39,954     | 292,443         | 69,457          | 5,751      | 187,769    |
| <b>SC</b>   | 90,390    | 30,555     | 19,360     | 278,299         | 41,613          | 13,051     | 146,107    |
| <b>TN</b>   | 74,189    | 35,253     | 18,499     | 226,098         | 44,124          | 30,577     | 154,377    |
| <b>VA</b>   | 128,132   | 46,639     | 52,618     | 252,488         | 44,514          | 105,984    | 147,034    |
| <b>WV</b>   | 31,640    | 10,625     | 13,439     | 115,089         | 20,664          | 12,284     | 55,288     |
| <b>Base F</b>   |           |            |            |                 |                 |            |            |
| <b>AL</b>   | 68,882    | 65,441     | 26,482     | 411,614         | 76,248          | 17,818     | 157,405    |
| <b>FL</b>   | 101,356   | 46,950     | 31,821     | 507,515         | 90,487          | 52,390     | 462,198    |
| <b>GA</b>   | 103,579   | 92,838     | 38,876     | 776,935         | 146,691         | 57,377     | 294,204    |
| <b>KY</b>   | 64,806    | 53,023     | 42,122     | 242,345         | 54,397          | 40,779     | 94,253     |
| <b>MS</b>   | 37,161    | 64,289     | 4,789      | 356,516         | 65,321          | 637        | 125,382    |
| <b>NC</b>   | 332,443   | 173,187    | 53,550     | 317,847         | 75,570          | 7,607      | 252,553    |
| <b>SC</b>   | 95,826    | 31,966     | 20,852     | 278,852         | 54,230          | 12,945     | 176,104    |
| <b>TN</b>   | 82,196    | 36,578     | 19,148     | 225,650         | 51,753          | 29,787     | 160,265    |
| <b>VA</b>   | 133,738   | 49,173     | 53,344     | 252,924         | 54,587          | 10,619     | 120,022    |
| <b>WV</b>   | 37,704    | 11,461     | 13,816     | 115,410         | 25,835          | 12,156     | 57,082     |
| <b>Percentage Difference (negative values means Base G increased from Base F)</b> |           |            |            |                 |                 |            |            |
| <b>AL</b>   | 3.24%     | 1.79%      | 9.64%      | -0.34%          | 23.02%          | -170.67%   | 8.86%      |
| <b>FL</b>   | 43.75%    | 17.75%     | 11.42%     | 0.84%           | 28.62%          | 29.95%     | 9.09%      |
| <b>GA</b>   | 9.12%     | 3.91%      | 2.95%      | 0.07%           | 23.65%          | -0.56%     | 7.44%      |
| <b>KY</b>   | 10.68%    | 0.03%      | 0.08%      | 0.07%           | 14.99%          | -5.66%     | 0.22%      |
| <b>MS</b>   | 26.85%    | 0.90%      | 11.27%     | 0.05%           | 20.91%          | -18.10%    | 0.32%      |
| <b>NC</b>   | 9.41%     | 1.66%      | 25.39%     | 7.99%           | 8.09%           | 24.41%     | 25.65%     |
| <b>SC</b>   | 5.67%     | 4.41%      | 7.16%      | 0.20%           | 23.27%          | -0.82%     | 17.03%     |
| <b>TN</b>   | 9.74%     | 3.62%      | 3.39%      | -0.20%          | 14.74%          | -2.65%     | 3.67%      |
| <b>VA</b>   | 4.19%     | 5.15%      | 1.36%      | 0.17%           | 18.45%          | -898.09%   | -22.51%    |
| <b>WV</b>   | 16.08%    | 7.29%      | 2.73%      | 0.28%           | 20.02%          | -1.06%     | 3.14%      |



**Table 2.2-3 2018 Projection Year Emissions and Percentage Difference for Base F and Base G (based on actual emissions).**

| <b>Actual Area 2018 - Base G</b>  |           |            |            |                 |                 |            |            |
|---|-----------|------------|------------|-----------------|-----------------|------------|------------|
| <b>State</b>  | <b>CO</b> | <b>NH3</b> | <b>NOX</b> | <b>PM10-PRI</b> | <b>PM25-PRI</b> | <b>SO2</b> | <b>VOC</b> |
| <b>AL</b>   | 59,626    | 71,915     | 25,028     | 445,256         | 62,323          | 50,264     | 153,577    |
| <b>FL</b>   | 53,903    | 40,432     | 30,708     | 578,516         | 72,454          | 38,317     | 489,975    |
| <b>GA</b>   | 93,827    | 99,885     | 41,332     | 880,199         | 123,704         | 59,729     | 319,328    |
| <b>KY</b>   | 54,865    | 55,211     | 44,346     | 256,052         | 47,645          | 44,186     | 103,490    |
| <b>MS</b>   | 22,099    | 69,910     | 4,483      | 375,495         | 53,222          | 746        | 140,134    |
| <b>NC</b>   | 290,809   | 180,866    | 43,865     | 315,294         | 71,262          | 6,085      | 189,591    |
| <b>SC</b>   | 83,167    | 33,496     | 20,592     | 304,251         | 44,319          | 13,457     | 161,228    |
| <b>TN</b>   | 68,809    | 36,291     | 19,597     | 246,252         | 46,692          | 31,962     | 182,222    |
| <b>VA</b>   | 121,690   | 50,175     | 56,158     | 275,351         | 46,697          | 109,380    | 150,919    |
| <b>WV</b>   | 28,773    | 11,504     | 14,828     | 121,549         | 21,490          | 12,849     | 60,747     |
| <b>Base F</b>   |           |            |            |                 |                 |            |            |
| <b>AL</b>   | 63,773    | 73,346     | 28,754     | 445,168         | 82,449          | 49,975     | 168,507    |
| <b>FL</b>   | 100,952   | 49,889     | 35,047     | 582,832         | 101,872         | 59,413     | 533,141    |
| <b>GA</b>   | 105,059   | 103,911    | 42,260     | 880,800         | 163,925         | 61,155     | 342,661    |
| <b>KY</b>   | 65,297    | 55,356     | 45,597     | 256,544         | 57,110          | 42,326     | 102,117    |
| <b>MS</b>   | 36,425    | 70,565     | 5,230      | 375,931         | 68,338          | 831        | 139,419    |
| <b>NC</b>   | 327,871   | 184,167    | 60,073     | 345,275         | 85,018          | 8,273      | 234,207    |
| <b>SC</b>   | 89,343    | 35,082     | 22,467     | 304,940         | 58,441          | 13,517     | 196,946    |
| <b>TN</b>   | 81,242    | 37,812     | 20,928     | 245,893         | 55,712          | 31,047     | 188,977    |
| <b>VA</b>   | 129,037   | 53,023     | 56,668     | 275,790         | 58,141          | 11,479     | 128,160    |
| <b>WV</b>   | 36,809    | 12,390     | 15,079     | 121,964         | 27,088          | 13,450     | 62,164     |
| <b>Percentage Difference (negative values means Base G increased from Base F)</b> |           |            |            |                 |                 |            |            |
| <b>AL</b>   | 6.50%     | 1.95%      | 12.96%     | -0.02%          | 24.41%          | -0.58%     | 8.86%      |
| <b>FL</b>   | 46.61%    | 18.96%     | 12.38%     | 0.74%           | 28.88%          | 35.51%     | 8.10%      |
| <b>GA</b>   | 10.69%    | 3.87%      | 2.20%      | 0.07%           | 24.54%          | 2.33%      | 6.81%      |
| <b>KY</b>   | 15.98%    | 0.26%      | 2.74%      | 0.19%           | 16.57%          | -4.40%     | -1.34%     |
| <b>MS</b>   | 39.33%    | 0.93%      | 14.28%     | 0.12%           | 22.12%          | 10.19%     | -0.51%     |
| <b>NC</b>   | 11.30%    | 1.79%      | 26.98%     | 8.68%           | 16.18%          | 26.45%     | 19.05%     |
| <b>SC</b>   | 6.91%     | 4.52%      | 8.34%      | 0.23%           | 24.16%          | 0.44%      | 18.14%     |
| <b>TN</b>   | 15.30%    | 4.02%      | 6.36%      | -0.15%          | 16.19%          | -2.95%     | 3.57%      |
| <b>VA</b>   | 5.69%     | 5.37%      | 0.90%      | 0.16%           | 19.68%          | -852.83%   | -17.76%    |
| <b>WV</b>   | 21.83%    | 7.15%      | 1.66%      | 0.34%           | 20.66%          | 4.46%      | 2.28%      |

### 2.2.3 *Changes to Prescribed Fire for 2009/2018 Base G*

Just prior to release of version 3.1 of the VISTAS inventory several Federal agencies indicated that they had plans for increased prescribed fire burning in future years and that the “typical” fire inventory would likely not adequately capture those increases (memo from Bill Jackson and Cindy Huber, August 13, 2004). However data were not readily available to incorporate those changes up through the Base F inventory. As a consequence MACTEC worked with Federal Land Managers to acquire the data necessary to provide 2009 and 2018 specific projections for the prescribed fire component of the Base G fire inventory. The 2009 and 2018 projections developed using the method described below are being used by VISTAS as the 2009 and 2018



base case inventories for all States except FL. For FL the supplied data from the FLMs is not being used as FL felt that their data adequately reflected current and future prescribed burning practices. The “typical” fire projection is the 2002 base prescribed fire projection.

One of the biggest issues in preparing the projection was how best to incorporate the data. Two agencies submitted data: Fish and Wildlife Service (FWS) and Forest Service (FS). FWS submitted annual acreage data by National Wildlife Refuge (NWR) and county with estimates of acres burned per day for each NWR. FS provided fire-by-fire acreage estimates based on mapping projected burning acreage to current 2002 modeling days. However, FWS did not submit data for VISTAS original base year preparation process, thus there was no known FWS data in the 2002 actual or typical inventories. Thus MACTEC had to develop a method that could use the county level data submitted by FWS.

In addition, despite the fact that the FS submitted fire-by-fire data for the 2002 actual inventory and had mapped the projections to current burn days in the 2002 actual inventory, MACTEC could not do a simple replacement of those records with the 2009/2018 projections. This situation was created because several VISTAS States run a prescribed fire permitting program. To avoid double counting, only State data was used in those States for the 2002 actual inventory. Thus there were no Federal data in those States since the Federal data could have potentially duplicated State-supplied prescribed fire data. In VISTAS States without permit programs, the FS supplied data for 2002 was used and those records were marked in database. Thus for those States, the FS supplied 2009/2018 data could be directly substituted for the 2002 data.

The method used by MACTEC to include the FS data applied a county level data approach for FS data where a State had a prescribed fire permitting program and a fire-by-fire replacement for FS data in States without permit programs. MACTEC used a county level approach for all of the FWS data. The approach used for each data set is discussed below.

For the FWS data MACTEC summed the annual acres burned supplied by the FWS across all NWRs in a county. We then subtracted out 2002 acreage for that county from the FWS projected acreage annual total to avoid double counting. The remaining acreage was then multiplied by 0.8 to account for blackened acres instead of the total perimeter acres that were reported. The revised total additional FWS acreage was then added to the total county “typical” acreage to determine future acreage burned for either 2009 or 2018. MACTEC then allocated the increased acreage to current modeling days. The average daily acres burned data provided by FWS per NWR/county was used to allocate the acreage to the correct number of days required to burn all of the acres. Guidance supplied by FWS indicated that up to three times the average daily acres burned could potentially be allocated to any one day. Thus if the estimated acreage per day were 100 acres then up to 300 acres could actually be allocated to a particular day. This approach (use of up to three times the average daily acres burned) was used if there were an insufficient number of 2002



modeling days available to account for all of the acreage increase. MACTEC used an incremental approach to using the increase above the base average daily acres. First we used twice the average daily acreage if that was sufficient to completely allocate the increased acreage over the total number of days available. If that wasn't sufficient then we used three times the average daily acres burned to allocate the acreage. We applied the highest increases to days in the database that already had the highest acreage burned since we felt those days were most likely to represent days with representative conditions for conducting prescribed burns.

The approach used by MACTEC for the FS was slightly different. For States that had permit programs, we used similar approach to the FWS county level approach. First we summed the FS data at county level, we then added that value to the typical acreage and then we allocated the acres to current modeling days. The mapping to current modeling days was performed by Bill Jackson of the USFS and provided to MACTEC. For States that do not have a prescribed fire permit program, MACTEC simply replaced the current fire-by-fire records in the database with fire-by-fire records from the FS and recalculated emissions based on fuel model and fuel loading. We also applied the same 0.8 correction for blackened acres applied to all FS supplied acreage as the supplied values represented perimeter acres.

An additional problem with developing year-specific prescribed fire projections was how to adequately capture the temporal profile for those fires. In the 2002 actual fire inventory, fires occur on same days as state/FLM records. In the 2002 "typical" year inventory, fire acreage increased or decreased from acreage on the same fire days as were in the 2002 actual inventory, since the acres were simply increased for each day based on a multiplier used to convert from actual to typical.

When prescribed fires acreage was added to a future year, MACTEC added acreage to individual fire days proportional to the annual increase (if acreage on a day is 10 percent of annual, add 10 percent of projected increase to that same day).

The table below shows how the FWS data for Okefenokee NWR were allocated for 2009 for Clinch County (Okefenokee NWR is located in four different counties). You can see that the total additional acres for the Clinch County portion of Okefenokee NWR was 1,956 acres. Two hundred eighty (280) acres were the estimated average daily acres burned for that NWR/county combination. Thus to allocate the entire 1,956 acres would require almost 7 burn days (1,956 divided by 280). However only 5 burn days were found for Clinch County in the 2002 actual fire database. Thus we allocated twice the average acreage to the burn day with the most acres burned in the 2002 actual fire database (since our method allowed us to increase the average daily acres burned up to three times the recommended level). Thus the first burn day received 560 acres and all others received 280 except the final day which received 276 to make the total equal to the required 1,956 acres. The table also indicates that the increased acres burned



provided increases of from 10-48 percent in the acres burned on the individual burn days and an average of approximately 14 percent for the year as a whole.

| CLINCH COUNTY         | 3/1/2002 | 4/1/2002 | 2/1/2002 | 1/1/2002 | 11/1/2002 | 12/1/2002 | Total Annual |
|-----------------------|----------|----------|----------|----------|-----------|-----------|--------------|
| Acres (typical)       | 3,757    | 2,612    | 1,996    | 1,801    | 616       | 472       | 11,764       |
| Add on FWS Projection | 560      | 280      | 280      | 280      | 280       | 276       | 1,956        |
| Total                 | 4,316    | 2,891    | 2,276    | 2,080    | 895       | 747       | 13,720       |
| Percent Increase      | 14.9%    | 10.7%    | 14.0%    | 15.6%    | 45.5%     | 58.5%     | 14.3%        |

The figure below shows the increases for prescribed burning in the four counties that comprise the Okefenokee NWR area (which also includes FS land). In this figure you can see the additional acreage added for the burn days from FWS and the individual day increases caused by projected increases in prescribed burning based on FS data. It should be noted that while the emissions represent 2009, all fire event dates listed are for 2002 to match up with the base year meteorology used in modeling exercises.

Table 2.2-4 shows the percentage difference between the 2009 and 2018 projections developed for Base F and Base G. Base G includes the revised prescribed burning estimates described above. Values are calculated using Base F as the basis for change, thus negative values imply an increase in emissions for Base G.

**Figure 2.2-1 Prescribed Fire Projection for Okefenokee NWR for 2009**

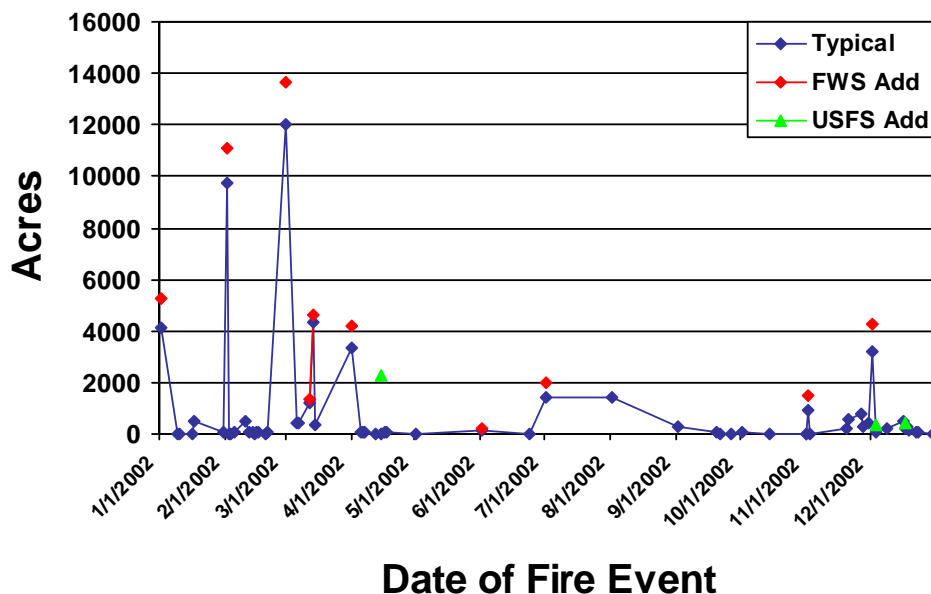




Table 2.2-4 Percentage Difference Between Base F and Base G Fire Emissions by State

| State  | CO      | NH3     | NOX     | PM10-PRI | PM25-PRI | SO2      | VOC    | CO      | NH3     | NOX     | PM10-PRI | PM25-PRI | SO2      | VOC     |
|--|---------|---------|---------|----------|----------|----------|--------|---------|---------|---------|----------|----------|----------|---------|
| <b>2009 Fires Base G</b>   |         |         |         |          |          |          |        |         |         |         |          |          |          |         |
| AL   | 534,873 | 2,050   | 11,901  | 52,851   | 46,543   | 2,681    | 27,502 | 535,658 | 2,054   | 11,918  | 52,927   | 46,608   | 2,686    | 27,539  |
| FL   | 923,310 | 3,157   | 19,791  | 98,470   | 88,756   | 4,129    | 51,527 | 923,310 | 3,157   | 19,791  | 98,470   | 88,756   | 4,129    | 51,527  |
| GA   | 637,177 | 2,229   | 14,243  | 63,973   | 57,116   | 2,914    | 34,710 | 637,177 | 2,229   | 14,243  | 63,973   | 57,116   | 2,914    | 34,710  |
| KY   | 31,810  | 143     | 682     | 3,093    | 2,653    | 187      | 1,497  | 33,296  | 150     | 714     | 3,237    | 2,777    | 196      | 1,567   |
| MS   | 48,160  | 217     | 1,033   | 4,683    | 4,016    | 283      | 2,266  | 50,037  | 225     | 1,073   | 4,865    | 4,173    | 294      | 2,355   |
| NC   | 96,258  | 433     | 2,065   | 9,359    | 8,027    | 566      | 4,530  | 111,266 | 501     | 2,387   | 10,819   | 9,279    | 655      | 5,236   |
| SC   | 282,307 | 1,039   | 5,899   | 29,153   | 25,955   | 1,359    | 16,045 | 282,307 | 1,039   | 5,899   | 29,153   | 25,955   | 1,359    | 16,045  |
| TN   | 17,372  | 78      | 373     | 1,689    | 1,449    | 102      | 817    | 18,860  | 85      | 405     | 1,834    | 1,573    | 111      | 888     |
| VA   | 21,130  | 95      | 453     | 2,054    | 1,762    | 124      | 994    | 26,923  | 121     | 578     | 2,618    | 2,245    | 158      | 1,267   |
| WV   | 3,949   | 18      | 85      | 384      | 329      | 23       | 186    | 5,013   | 23      | 108     | 487      | 418      | 29       | 236     |
| <b>2018 Fires Base F</b>   |         |         |         |          |          |          |        |         |         |         |          |          |          |         |
| AL   | 514,120 | 1,957   | 11,456  | 50,833   | 44,812   | 2,559    | 26,526 | 514,120 | 1,957   | 11,456  | 50,833   | 44,812   | 2,559    | 26,526  |
| FL   | 923,310 | 3,157   | 19,791  | 98,470   | 88,756   | 4,129    | 51,527 | 923,310 | 3,157   | 19,791  | 98,470   | 88,756   | 4,129    | 51,527  |
| GA   | 620,342 | 2,153   | 13,882  | 62,336   | 55,712   | 2,815    | 33,918 | 620,342 | 2,153   | 13,882  | 62,336   | 55,712   | 2,815    | 33,918  |
| KY   | 56,686  | 110     | 1,460   | 6,667    | 6,310    | 136      | 3,338  | 56,686  | 110     | 1,460   | 6,667    | 6,310    | 136      | 3,338   |
| MS   | 128,471 | 177     | 3,328   | 14,693   | 13,680   | 100      | 13,625 | 128,471 | 177     | 3,328   | 14,693   | 13,680   | 100      | 13,625  |
| NC   | 200,564 | 324     | 5,005   | 20,488   | 19,491   | 423      | 12,499 | 200,564 | 324     | 5,005   | 20,488   | 19,491   | 423      | 12,499  |
| SC   | 253,005 | 908     | 5,270   | 26,304   | 23,511   | 1,187    | 14,666 | 253,005 | 908     | 5,270   | 26,304   | 23,511   | 1,187    | 14,666  |
| TN   | 78,370  | 46      | 2,232   | 8,875    | 8,730    | 59       | 5,153  | 78,370  | 46      | 2,232   | 8,875    | 8,730    | 59       | 5,153   |
| VA   | 19,159  | 159     | 978     | 18,160   | 17,361   | 99       | 912    | 19,159  | 159     | 978     | 18,160   | 17,361   | 99       | 912     |
| WV   | 32,656  | 12      | 944     | 3,276    | 3,239    | 16       | 2,184  | 32,656  | 12      | 944     | 3,276    | 3,239    | 16       | 2,184   |
| <b>Percentage Difference (negative number means an increase in Base G emissions)</b> |         |         |         |          |          |          |        |         |         |         |          |          |          |         |
| AL   | -4.04%  | -4.77%  | -3.89%  | -3.97%   | -3.86%   | -4.77%   | -3.68% | -4.19%  | -4.95%  | -4.03%  | -4.12%   | -4.01%   | -4.95%   | -3.82%  |
| FL   | 0.00%   | 0.00%   | 0.00%   | 0.00%    | 0.00%    | 0.00%    | 0.00%  | 0.00%   | 0.00%   | 0.00%   | 0.00%    | 0.00%    | 0.00%    | 0.00%   |
| GA   | -2.71%  | -3.52%  | -2.60%  | -2.63%   | -2.52%   | -3.52%   | -2.34% | -2.71%  | -3.52%  | -2.60%  | -2.63%   | -2.52%   | -3.52%   | -2.34%  |
| KY   | 43.88%  | -29.52% | 53.25%  | 53.61%   | 57.96%   | -37.90%  | 55.15% | 41.26%  | -35.57% | 51.07%  | 51.44%   | 56.00%   | -44.34%  | 53.06%  |
| MS   | 62.51%  | -22.07% | 68.95%  | 68.13%   | 70.64%   | -183.85% | 83.37% | 61.05%  | -26.83% | 67.74%  | 66.89%   | 69.50%   | -194.91% | 82.72%  |
| NC   | 52.01%  | -33.75% | 58.74%  | 54.32%   | 58.82%   | -33.75%  | 63.76% | 44.52%  | -54.60% | 52.31%  | 47.19%   | 52.40%   | -54.60%  | 58.11%  |
| SC   | -11.58% | -14.52% | -11.93% | -10.83%  | -10.39%  | -14.52%  | -9.40% | -11.58% | -14.52% | -11.93% | -10.83%  | -10.39%  | -14.52%  | -9.40%  |
| TN   | 77.83%  | -69.40% | 83.30%  | 80.97%   | 83.41%   | -74.42%  | 84.14% | 75.93%  | -83.92% | 81.87%  | 79.34%   | 81.98%   | -89.36%  | 82.78%  |
| VA   | -10.29% | 40.36%  | 53.67%  | 88.69%   | 89.85%   | -25.40%  | -9.03% | -40.53% | 24.00%  | 40.97%  | 85.59%   | 87.07%   | -59.79%  | -38.93% |
| WV   | 87.91%  | -48.65% | 91.03%  | 88.28%   | 89.83%   | -49.46%  | 91.49% | 84.65%  | -88.70% | 88.61%  | 85.12%   | 87.09%   | -89.73%  | 89.20%  |

MACTEC, Inc.



#### **2.2.4      *Quality Assurance steps***

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, to ensure that a full and complete inventory was developed for VISTAS, and to make sure that projection calculations were working correctly. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the stationary and agricultural area source components of the 2009 and revised 2018 projection inventories:

1. All final files were run through EPA's Format and Content checking software.
2. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources.
3. Tier comparisons (by pollutant) were developed between the 2002 base year inventory and the 2009 and 2018 projection inventories. In addition, total VISTAS pollutant summaries were prepared to compare total emissions by pollutant between versions of the inventory (e.g., between Base F and Base G).
4. Data product summaries were provided to both the VISTAS Emission Inventory Technical Advisor and to the SIWG representatives for review and comment. Changes based on these comments were implemented in the files.
5. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from 1.0 to 2.0. A minor change would cause a version number to go from 1.0 to 1.1. Minor changes resulting from largely editorial changes would result in a change from 1.00 to 1.01.

### **2.3      *Mobile Sources***

Our general approach for assembling data was to use as much existing data from the pre-Base F preliminary projections as possible for these inventories, supplement these data with easily available stakeholder input, and provide the results for stakeholder review to ensure credibility. To develop the "base case" projections, MACTEC originally assembled data to develop two 2009 and 2018 base case inventories: 1) an inventory that included all "on-the-books" control programs and 2) an "on-the-way" inventory that included controls that were likely to be "on-the-way". For the Base F and Base G emission forecasts to the mobile source sector, "on-the-books" and "on-the-way" are defined with the same strategies and therefore only a single projection scenario was developed for each forecast year.

To ensure consistency across evaluation years, the 2009 and 2018 base case inventories were developed, to the maximum extent practical, using methodologies identical to those employed in



developing the 2002 on-road portion of the revised 2002 VISTAS base year inventory. All modifications to the 2002 inventory methods were developed in consultation with the Mobile Source Special Interest Workgroup (MSSIWG). Generally, modifications were only made to properly account for actual changes expected in the intervening period (i.e., between 2002 and 2009 and between 2002 and 2018), but the underlying inventory development methodology was identical, except to the extent requested by VISTAS or the MSSIWG.

MACTEC developed a preliminary 2018 inventory in early 2004. That inventory was designed to 1) be used for modeling sensitivity evaluations and 2) help establish the methods that would be used for the final 2018 inventory and the initial 2009 inventory. Since that work took place prior to the revision of the 2002 base year inventory data files, MACTEC provided a review of the data and methods used to develop on-road mobile source input files for the initial 2002 base year inventory prior to developing the preliminary 2018 inventory. Through this review, MACTEC determined the following:

- On-road VMT. Most States provided local data for 2002 (or a neighboring year that was converted to 2002 using appropriate VMT growth surrogates such as population). Since these data were not applicable to 2018 due to intervening growth, input for 2018 was solicited from the MSSIWG. At the same time we researched county-specific growth rate data utilized for recent national rulemakings as a backstop approach to State supplied VMT projections.
- Modeling Temperatures. Actual 2002 temperatures were used for the initial 2002 base year inventory.
- Vehicle Registration Mix (age fractions by type of vehicle). A mix of State, local, and MOBILE6 default data were used for the 2002 initial base year inventory. Forecast data were solicited from the States, with a fallback position that we hold the fractions constant at their 2002 values.
- Vehicle Speed by Roadway Type. For the 2002 initial base year inventory, speeds varying by vehicle and road type were used.
- VMT Mixes (fraction of VMT by vehicle type). A mix of State, local, and quasi MOBILE6 default (i.e., MOBILE6 defaults normalized to better reflect local conditions) data were used for the 2002 initial base year inventory. Forecast data were solicited from the States.
- Diesel Sales Fractions. As with the VMT mix data, the diesel sales fraction data employed for the 2002 initial base year inventory represents a mix of State, local, and quasi MOBILE6 default data. The issues related to updating these data to 2018 are also



similar, but are complicated by the fact that MOBILE6 treats diesel sales fraction on a model year, rather than age specific basis. Therefore, diesel sales fractions generally cannot be held constant across time. Once again, we solicited any local projections, with a fallback position that we would keep the data for 2002 and earlier model years constant for the forecast inventory, supplemented with MOBILE6 default data for 2003 and newer model years.

- **State/Local Fuel Standards.** For the 2002 initial base year inventory, these data were based on appropriate local requirements and updated data for 2018 was only required if changes were expected between 2002 and 2018. There are some national changes in required fuel quality for both on-road and non-road fuels that are expected to occur between 2002 and 2018 and these would be reflected in the 2018 inventory in the absence of more stringent local fuel controls. Expected changes in local fuel control programs were solicited.
- **Vehicle Standards.** The 2002 initial base year inventory assumed NLEV applicability. This was altered to reflect Tier 2 for 2018, unless a State indicated a specific plan to adopt the California LEV II program. If so, we made the required changes to implement those plans for the preliminary 2018 inventory.
- **Other Local Controls.** This includes vehicle emissions inspection (i.e., I/M) programs, Stage II vapor recovery programs, anti tampering programs, etc. By nature, the assumptions used for the 2002 initial base year inventory vary across the VISTAS region, but our presumption is that these data accurately reflected each State's situation as it existed in 2002. If a State had no plans to change program requirements between 2002 and 2018, we proposed to maintain the 2002 program descriptions without change. However, if a State planned changes, we requested information on those plans. In the final implementation of the Base F and earlier inventories, Stage II controls were exercised in the area source component of the inventory, since the units used to develop Stage II refueling estimates are different between MOBILE6 and the NONROAD models. However, in the Base G inventories, Stage II refueling was moved to the on-road and non-road sectors.

Once the preliminary 2018 (pre-Base F) base case projection inventory data were compiled, MACTEC applied the data and methods selected and proceeded to develop the preliminary (pre-base F) base case 2018 projection inventories. The resulting inventories were provided to the MSSIWG in a user-friendly format for review. After stakeholder review and comment, the final preliminary 2018 base case inventories and input files were provided to VISTAS in formats identified by the VISTAS Technical Advisor (in this case, MOBILE input files and VMT, NONROAD input files and annual inventory files for NONROAD in NIF 3.0 format). Annual



inventory files for MOBILE were not developed as part of this work, only input files and VMT forecasts. MOBILE emissions were calculated by VISTAS air quality modeling contractor using the provided files.

### **2.3.1      *Development of on-road mobile source input files***

As indicated above, MACTEC prepared a preliminary version of the 2018 base case mobile inventory input data files. These files were then updated to provide a final set of 2018 base case inventory input data files as well as a set of input files for 2009. The information below describes the updates performed on the preliminary 2018 files and the development of the 2009 input data files for Base F emission estimation.

Our default approach to preparing the revised 2018 and initial 2009 projection inventories for on-road mobile sources was to estimate the emissions by using either:

1.      the revised 2002 data provided by each State coupled with the projection methods employed for the preliminary 2018 inventory, or
2.      the same data and methods used to generate the preliminary 2018 inventory.

We also investigated whether or not there was more recent VMT forecasting data available (e.g., from the CAIR and if appropriate revised the default VMT growth rates accordingly. This did not affect any State that provided local VMT forecasting data, but would alter the VMT estimates used for other areas.

Since no preliminary 2009 inventory was developed there did not exist an option (2) above for 2009. As a consequence, MACTEC crafted the 2009 initial inventory for on-road mobile sources using methods identical to those employed for the 2018 preliminary inventories coupled with any changes/revisions provided by the States during the review of the revised 2002 base year and the 2018 preliminary inventories. Therefore, as was the case for 2018, we obtained from the States any input data revisions, methodological revisions, and local control program specifications (to the extent that they differed from 2002/2018).

#### **2.3.1.1      Preparation of revised 2018 input data files**

Preparation of the revised 2018 inventories required the following updates:

1.      The evaluation year was updated to 2018 in all files.
2.      The diesel fuel sulfur content was revised from 500 ppm to 11 ppm, consistent with EPA data for 2018 in all files.
3.      Since the input data is model year, rather than age, specific for diesel sales fractions (with data for the newest 25 model years required), we updated all files that included



diesel sales fractions. In the revised 2002 base year files, the data included applied to model years 1978-2002. For 2018, the data included would reflect model years 1994-2018. To forecast the 2002 data, MACTEC took the data for 1994-2002 from the 2002 files and added data for 2003-2018. To estimate the data for these years, we employed the assumption employed by "default" in MOBILE6 -- namely that diesel sales fractions for 1996 and later are constant. Therefore, we set the diesel sales fractions for 2003-2018 at the same value as 2002.

4. VMT mix fractions must be updated to reflect expected changes in sales patterns between 2002 and 2018. If explicit VMT mix fractions are not provided, these changes are handled internally by MOBILE6 or externally through absolute VMT distributions. However, files that include explicit VMT mix fractions override the default MOBILE6 update and may or may not be consistent with external VMT distributions. MACTEC updated the VMT mix in such files as follows:

First, we calculated the VMT fractions for LDV, LDT1, LDT2, HDV, and MC from the external VMT files for 2018. This calculation was performed in accordance with section 5.3.2 of the MOBILE6 Users Guide which indicates:

$$\text{LDV} = \text{LDGV} + \text{LDDV}$$

$$\text{LDT1} = \text{LDGT1} + \text{LDDT}$$

$$\text{LDT2} = \text{LDGT2}$$

$$\text{HDV} = \text{HDGV} + \text{HDDV}$$

$$\text{MC} = \text{MC}$$

The resulting five VMT fractions were then split into the 16 fractions required by MOBILE6 using the distributions for 2018 provided in Appendix D of the MOBILE6 Users Guide. This approach ensures that explicit input file VMT fractions are consistent with the absolute VMT distributions prepared by MACTEC. These changes were made to all files that included VMT mixes.

5. All other input data were retained at 2002 values, except as otherwise instructed by the States. This includes all control program descriptions (I/M, Anti-Tampering Program [ATP], Stage II, etc.), all other fuel qualities (RVP, oxy content, etc.), all other vehicle descriptive data (registrations age distributions, etc.), and all scenario descriptive data. The State-specific updates performed are described below.

#### **Kentucky:**

MACTEC revised the 2018 input files for the Louisville, Kentucky area (Louisville Air Pollution Control District [APCD]) based on comments received relative to several components of



MOBILE input data. Based on these comments, the input files for Jefferson County, Kentucky were updated accordingly as follows:

- a) I/M and tampering program definitions were removed since the program was discontinued at the end of 2003.
- b) The "Speed VMT", "Facility VMT" and "Registration Age Distribution" file pointers were updated to reflect revised 2002 files provided by the Louisville APCD.
- c) The "VMT Mix" data, which was previously based on the default approach of "growing" 2002 data, was replaced by 2018-specific data provided by the Louisville APCD.

### **North Carolina:**

North Carolina provided a wide range of revised input data, including complete MOBILE6 input files for July modeling. MACTEC did not use the provided input files directly as they did not match the 2002 NC input files for critical elements such as temperature distributions and gasoline RVP (while they were close, they were slightly different). To maintain continuity between 2002 and 2018 modeling, MACTEC instead elected to revise the 2002 input files to reflect all control program and vehicle-related changes implied by the new 2018 files, while retaining the basic temperature and gasoline RVP assumptions at their 2002 values. Under this approach, the following changes were made:

- a) NC provided a county cross reference file specific to 2018 that differed from that used for 2002. We removed files that were referenced in the 2002 input data and replaced those files with those referenced in the 2018 data. In addition, since NC only provided 2018 input files for July, we estimated the basic data for these new files for the other months by cross referencing the target files for 2002 by county against the target files for 2018 by county.
- b) We then revised the 2002 version of each input file to reflect the 2018 "header" data included in the NC-provided 2018 files. These data are exclusively limited to I/M and ATP program descriptions, so that the 2002 I/M and ATP data were replaced with 2018 I/M and ATP data.
- c) We retained the registration age fractions at their 2002 "values" (external file pointers) as per NC instructions.
- d) We retained all scenario-specific data (i.e., temperatures, RVP, etc.) at 2002 values, which (as indicated above), were slightly different in most cases from data included in the 2018 files provided by NC. We believe these differences were due to small deviations between the data assembled to support VISTAS 2002 and the process used to generate the 2018 files provided by NC, and that revising the VISTAS 2002 data to



reflect these variations was not appropriate given the resulting inconsistencies that would be reflected between VISTAS 2002 and VISTAS 2018.

- e) NC also provided non-I/M versions of the 2018 input files that would generally be used to model the non-I/M portion of VMT. While these files were retained they were not used for the 2018 input data preparation.

Finally, NC also provided a speed profile file and a speed profile cross reference file for 2018. We did not use these in our updates as they have no bearing on the MOBILE6 input files, but they were maintained in case they needed to be included in SMOKE control files for a future year control strategy scenario.

### **Virginia:**

In accordance with instructions from VA, the input files that referenced an external I/M descriptive program file (VAIM02.IM) were revised to reference an alternative external file (VAIM05.IM). This change was to make the I/M program more relevant to the year 2018.

One additional important difference was made with respect to the revised 2018 and initial 2009 on-road mobile source input data files for all States. MACTEC developed updated SMOKE ready input files rather than MOBILE6 files so that the input data could be used directly by the VISTAS modeling contractor to estimate on-road mobile source emissions during modeling runs.

#### **2.3.1.2 Preparation of initial 2009 input data files**

The methodology used to develop the 2009 on-road input files was based on forecasting the previously developed revised 2002 base year input files and is identical to that previously described for the revised 2018 methodology except as follows:

1. The evaluation year was updated to 2009.
2. Diesel fuel sulfur content was revised from 500 ppm to 29 ppm. The 29 ppm value was derived from an EPA report entitled "Summary and Analysis of the Highway Diesel Fuel 2003 Pre-compliance Reports" (EPA420-R-03-013, October 2003), which includes the Agency's estimates for the year-to-year fuel volumes associated with the transition from 500 ppm to 15 ppm diesel fuel. According to Table 2 of the report, there will be 2,922,284 barrels per day of 15 ppm diesel distributed in 2009 along with 110,488 barrels per day of 500 ppm diesel. Treating the 15 ppm diesel as 11 ppm on average (consistent with EPA assumptions and assumptions employed for the 2018 input files) and sales weighting the two sulfur content fuels results in an average 2009 diesel fuel sulfur content estimate of 29 ppm.



3. Diesel sales fractions were updated identically to 2018 except that the diesel sales fractions for 2003-2009 were set at the same value as those for 2002 (rather than 2003-2018).
4. VMT mix fractions were updated to 2009 using an identical method to that described for 2018.
5. All other input data were retained at 2002 values, except as otherwise instructed by individual States (see below). This includes all control program descriptions (I/M, ATP, Stage II, etc.), all other fuel qualities (RVP, oxy content, etc.), all other vehicle descriptive data (registration age distributions, etc.), and all scenario descriptive data.

In addition to the updates described above that were applied to all VISTAS-region inputs, the following additional State-specific updates were performed:

- KY** – Identical changes to those made for 2018 (but specific to 2009) were made for the 2009 input files.
- NC** – Identical changes to those made for 2018 (but specific to 2009) were made for the 2009 input files.
- VA** – Identical changes to those made for 2018 were made for 2009.

### **2.3.2 VMT Data**

The basic methodology used to generate the 2009 and 2018 VMT for use in estimating on-road mobile source emissions was as follows:

1. All estimates start from the final VMT estimates used for the 2002 revised base year inventory.
2. Initial 2009 and 2018 VMT estimates were based on linear growth rates for each State, county, and vehicle type as derived from the VMT data assembled by the U.S. EPA for their most recent HDD (heavy duty diesel) rulemaking. The methodology used to derive the growth factors is identical to that employed for the preliminary 2018 VMT estimates (which is described in the next section).
3. For States that provided no independent forecast data, the estimates derived in step 2 are also the final estimates. These States are: Alabama, Florida, Georgia, Kentucky, Mississippi, and West Virginia. For States that provided forecast data, the provided data were used to either replace or augment the forecast data based on the HDD rule. These States, and the specific approaches employed, are detailed following the growth method description.

The steps involved in performing the growth estimates for VMT were as follows:



1. Linear growth estimates were used (although MACTEC investigated the potential use of nonlinear factors and presented that information to the MSSIWG, the decision was made to use linear growth factors instead of nonlinear).
2. Estimates were developed at the vehicle class (i.e., LDGV, LDGT1, LDGT2, etc.) level of detail since the base year 2002 estimates were presented at that level of resolution. In effect, the county and vehicle class specific growth factors were applied to the 2002 VMT estimates for each vehicle and road class.
3. Overall county-specific VMT estimates for each year (developed by summing the vehicle and road class specific forecasts) were then compared to overall county-specific growth. Since overall county growth is a more appropriate controlling factor as it includes the combined impacts of all vehicle classes, the initial year-specific vehicle and road class VMT forecasts were normalized so that they matched the overall county VMT growth. Mathematically, this process is as follows:

$$(\text{Est}_{rv\_f}) = (\text{Est}_{rv\_i}) * (\text{C}_{20XX} / \text{Sum}(\text{Est}_{rv\_i}))$$

where:

Est<sub>rv\_f</sub> = the final road/vehicle class-specific estimates,

Est<sub>rv\_i</sub> = the initial road/vehicle class-specific estimates, and

C<sub>20XX</sub> = the county-specific growth target for year 20XX.

Table 2.3-1 presents a basic summary of the forecasts for the preliminary 2018 inventory for illustrative purposes:

**Table 2.3-1 2002 versus 2018 VMT (million miles per year)**

| State          | 2002    | 2018    | Growth Factor |
|----------------|---------|---------|---------------|
| Alabama        | 55,723  | 72,966  | 1.309         |
| Florida        | 178,681 | 258,191 | 1.445         |
| Georgia        | 106,785 | 148,269 | 1.388         |
| Kentucky       | 51,020  | 66,300  | 1.299         |
| Mississippi    | 36,278  | 46,996  | 1.295         |
| North Carolina | 80,166  | 110,365 | 1.377         |
| South Carolina | 47,074  | 63,880  | 1.357         |
| Tennessee      | 68,316  | 91,647  | 1.342         |
| Virginia       | 76,566  | 102,971 | 1.345         |
| West Virginia  | 19,544  | 24,891  | 1.274         |



The following States provided some types of forecast data for VMT. The information presented below indicates how those data were processed by MACTEC for use in the VISTAS projection inventories.

**Kentucky:**

Revised 2009 and 2018 VMT mix data were provided by the Louisville APCD. Therefore, the distribution of Jefferson County VMT by vehicle type within the KY VMT file was revised to reflect the provided mix. This did not affect the total forecasted VMT for either Jefferson County or the State, but does alter the fraction of that VMT accumulated by each of the eight vehicle types reflected in the VMT file. The following procedure was employed to make the VMT estimates consistent with the provided 2009/2018 VMT mix:

- a) The 16 MOBILE6 VMT mix fractions were aggregated into the following five vehicle types: LDV, LDT1, LDT2, HDV, and MC.
- b) The 8 VMT mileage classes were aggregated into the same five vehicle types (across all roadway types) and converted to fractions by normalizing against the total Jefferson County VMT.
- c) The ratio of the "desired" VMT fraction (i.e., that provided in the Louisville APCD VMT mix) to the "forecasted" VMT fraction (i.e., that calculated on the basis of the forecasted VMT data) was calculated for each of the five vehicle classes.
- d) All forecasted VMT data for Jefferson County were multiplied by the applicable ratio from step c as follows:

$$\begin{aligned}\text{new LDGV} &= \text{old LDGV} * \text{LDV ratio} \\ \text{new LDGT1} &= \text{old LDGT1} * \text{LDT1 ratio} \\ \text{new LDGT2} &= \text{old LDGT2} * \text{LDT2 ratio} \\ \text{new HDGV} &= \text{old HDGV} * \text{HDV ratio} \\ \text{new LDDV} &= \text{old LDDV} * \text{LDV ratio} \\ \text{new LDDT} &= \text{old LDDT} * \text{LDT1 ratio} \\ \text{new HDDV} &= \text{old HDDV} * \text{HDV ratio} \\ \text{new MC} &= \text{old MC} * \text{MC ratio}\end{aligned}$$

The total forecasted VMT for Jefferson County was then checked to ensure that it was unchanged.

**North Carolina:**

North Carolina provided both VMT and VMT mix data by county and roadway type for 2018. Therefore, these data replaced the data developed for North Carolina using HDD rule growth



rates in their entirety. Similar data were submitted for 2009. Table 2.3-2 presents the resulting VMT estimates which differ from the "default" HDD rule estimates as follows:

**Table 2.3-2 VMT and HDD Rule Estimates for North Carolina (million miles per year)**

| North Carolina |            |          |
|----------------|------------|----------|
| 2002           | 106,795    |          |
|                | State Data | HDD Data |
| 2009           | 123,396    | 124,626  |
| 2018           | 129,552    | 146,989  |

As indicated, there are substantial reductions in the State-provided forecast data relative to that derived from the HDD rule. The growth rates for both 2009 and 2018 are only about half that implied by the HDD data (1.15 versus 1.17 for 2009 and 1.21 versus 1.38 for 2018). The resulting growth rates are the lowest in the VISTAS region.

NC did not provide VMT mix data for 2009. Therefore, the VMT mix fractions estimated using the "default" HDD rule growth rates were applied to the State-provided VMT estimates to generate vehicle-specific VMT. Essentially, the default HDD methodology produces VMT estimates at the county-road type-vehicle type level of detail, and these data can be converted into VMT fractions at that same level of detail. Note that these are not HDD VMT fractions, but VMT fractions developed from 2002 NC data using HDD vehicle-specific growth rates. In effect, they are 2002 NC VMT fractions "grown" to 2009.

The default VMT mix fraction was applied to the State-provided VMT data at the county and road type level of detail to generate VMT data at the county-road type-vehicle type level of detail. The one exception was for county 063, road 110, for which no VMT data were included in the HDD rule. For this single county/road combination, State-aggregate VMT mix fractions (using the HDD growth methodology) were applied to the county/road VMT data. The difference between road 110 VMT fractions across all NC counties is minimal, so there is no effective difference in utilizing this more aggregate approach vis-à-vis the more resolved county/road approach.

### **South Carolina:**

South Carolina provided county and roadway type-specific VMT data for several future years. Data for 2018 was included and was used directly. Data for 2009 was not included, but was linearly interpolated from data provided for 2007 and 2010. The data were disaggregated into vehicle type-specific VMT using the VMT mixes developed for South Carolina using the HDD rule VMT growth rates. Table 2.3-3 presents the resulting VMT estimates which differ from the "default" HDD rule estimates as follows:



**Table 2.3-3 VMT and HDD Rule Estimates for South Carolina (million miles per year)**

| South Carolina |            |          |
|----------------|------------|----------|
| 2002           | 47,074     |          |
|                | State Data | HDD Data |
| 2009           | 55,147     | 54,543   |
| 2018           | 65,133     | 63,880   |

**Tennessee:**

In general, Tennessee estimates are based on the HDD rule growth rate as described in step two. However, Knox County provided independent VMT estimates for 2018 and these were used in place of the HDD rule-derived estimates. The Knox County estimates were total county VMT data only, so these were disaggregated into roadway and vehicle-type VMT using the distributions developed for Knox County in step two using the HDD rule VMT growth rates. No data for Knox County were provided for 2009, so the estimates derived using the HDD rule growth factors were adjusted by the ratio of "Knox County provided 2018 VMT" to "Knox County HDD Rule-derived 2018 VMT." Table 2.3-4 presents the resulting VMT estimates which differ from the "default" HDD rule estimates as follows:

**Table 2.3-4 VMT and HDD Rule Estimates for Tennessee (million miles per year)**

| Tennessee |            |          |
|-----------|------------|----------|
| 2002      | 68,316     |          |
|           | State Data | HDD Data |
| 2009      | 78,615     | 78,813   |
| 2018      | 91,417     | 91,647   |

**Virginia:**

Virginia provided county and roadway type-specific annual VMT growth rates and these data were applied to Virginia -provided VMT data for 2002 to estimate VMT in both 2009 and 2018. Virginia provided VMT mix data for 2002, but not 2009 or 2018. Therefore, the estimated VMT data for both 2009 and 2018 were disaggregated into vehicle type-specific VMT using the VMT mixes developed for VA using the HDD rule VMT growth rates. Table 2.3-5 presents the resulting VMT estimates which differ from the "default" HDD rule estimates as follows:



**Table 2.3-5 VMT and HDD Rule Estimates for Virginia (million miles per year)**

| Virginia |            |          |
|----------|------------|----------|
| 2002     | 77,472     |          |
|          | State Data | HDD Data |
| 2009     | 88,419     | 89,196   |
| 2018     | 104,944    | 104,164  |

### 2.3.3 *Base G Revisions*

For the development of the VISTAS 2009 and 2018 Base G inventories and input files, VISTAS states reviewed the Base F inputs, and provided corrections, updates and supplemental data as noted below.

For all states modeled, the Base G updates include:

- Adding Stage II refueling emissions calculations to the SMOKE processing.
- Revised the HDD compliance. (REBUILD EFFECTS = .1)
- Revised Diesel sulfur values in 2009 to 43 ppm and 2018 to 11 ppm

In addition to the global changes, individual VISTAS states made the following updates:

KY – updated VMT and M6 input values for selected counties

NC – revised VMT estimates, speeds and vehicle distributions and updated registration distributions for Mobile 6.

TN - revised VMT and vehicle registration distributions for selected counties.

WV – revised VMT input data

AL, FL, and GA and VA did not provide updates for 2009/2018 Base G, and the Base F inputs were used for these States.

### 2.3.4 *Development of non-road emission estimates*

The sections that follow describe the projection process used to develop 2009 and 2018 non-road projection estimates, as revised through the spring of 2006, for sources found in the NONROAD model and those sources estimated outside of the model (locomotives, airplanes and commercial marine vessels).

#### 2.3.4.1 **NONROAD model sources**

NONROAD model input files were prepared in both the fall of 2004 (Base F) and the spring of 2006 (Base G) based on the corresponding 2002 base year inventory input files available at the



time the forecasts were developed, with appropriate updates for the projection years. Generally, this means that the Base F 2002 base year input files (as updated through the fall of 2004) were used as the basis for Base F projection year input file development and Base G 2002 base year input files as updated through the spring of 2006 were used as the basis for Base G projection year input file development. Thus, all base year revisions are inherently incorporated into the associated projection year revisions. Other specific updates for the projection years for NONROAD model sources consist of:

1. Revise the emission inventory year in the model (as well as various output file naming commands) to be reflective of the projection year.
2. Revise the fuel sulfur content for gasoline and diesel powered equipment.
3. Implement a limited number of local control program charges (national control program changes are handled internally within the NONROAD model, so explicit input file changes are not required).

All equipment population growth and fleet turnover impacts are also handled internally within the NONROAD model, so that explicit changes input file changes are not required.

#### **Base F Input File Changes:**

To correctly account for diesel fuel sulfur content differences between the base and projection years, two sets of input and output files were prepared for each forecast year, one set for land-based equipment and one set for marine equipment. This two-step projection process was required for Base F, because diesel fuel sulfur contents varied between land-based and marine-based non-road equipment and the Draft NONROAD2004 used for Base F allowed only a single diesel fuel sulfur input. Thus, the model was executed separately for land-based and marine-based equipment for Base F, and the associated outputs subsequently combined. The specific diesel fuel sulfur contents modeled were as follows:

| <b>Diesel S (ppm)</b> | <b>2002</b> | <b>2009</b> | <b>2018</b> |
|-----------------------|-------------|-------------|-------------|
| Land-Based            | 2500        | 348         | 11          |
| Marine-Based          | 2500        | 408         | 56          |

As indicated, the Draft NONROAD2004 model was run with both sets of input files and the output file results were then combined to produce a single NONROAD output set.

To correctly account for the national reduction in gasoline sulfur content (a national control not explicitly handled by the NONROAD model), all NONROAD input files for both 2009 and 2018 were revised to reflect a gasoline fuel sulfur content of 30 ppmW.



### Base G Input File Changes:

With the release of Final NONROAD2005 that was used for the Base G projection year inventory development, the NONROAD model is capable of handling separate diesel fuel sulfur inputs for land-based and marine-based non-road equipment in a single model execution. Therefore, the two step modeling process described above for Base F updates was no longer required. Instead, the differential diesel fuel sulfur values are assembled into a single NONROAD input file as follows:

| <b>Diesel S (ppm)</b> | <b>2002</b> | <b>2009</b> | <b>2018</b> |
|-----------------------|-------------|-------------|-------------|
| Land-Based            | 2500        | 348         | 11          |
| Marine-Based          | 2638        | 408         | 56          |

Additionally, revised gasoline vapor pressure data were provided by Georgia regulators for 20 counties<sup>5</sup> where reduced volatility requirements were established in 2003. Since this requirement began after the 2002 base year, the vapor pressure values in the base year input files for these counties are not correct for either the 2009 or 2018 forecast years. Therefore, to correctly forecast emissions in these counties, the forecast year gasoline vapor pressure inputs were revised to:

| <b>Gasoline RVP (psi)</b> | <b>2002</b> | <b>2009</b> | <b>2018</b> |
|---------------------------|-------------|-------------|-------------|
| Spring                    | 9.87        | 9.2         | 9.2         |
| Summer                    | 9.0         | 7.0         | 7.0         |
| Fall                      | 9.87        | 9.2         | 9.2         |
| Winter                    | 12.5        | 12.5        | 12.5        |

The summer vapor pressure was simply set equal to the 2003 control value, while the spring and fall vapor pressures were adjusted to reflect a single month of the reduced volatility limit. The winter volatility was assumed to be unaffected by the summertime control requirement.

#### 2.3.4.1.1 Differences between 2009/2018

Other than diesel fuel sulfur content and the year of the projections, there are no differences in the methodology used to estimate emissions from NONROAD model sources. As indicated above, however the Base F 2009/2018 projections were developed using Draft NONROAD2004, while the Base G 2009/2018 projections were made using Final NONROAD2005.

---

<sup>5</sup> The specific counties are: Banks, Chattooga, Clarke, Floyd, Gordon, Heard, Jasper, Jones, Lamar, Lumpkin, Madison, Meriwether, Monroe, Morgan, Oconee, Pike, Polk, Putnam, Troup, and Upson.



#### **2.3.4.2 Non-NONROAD model sources**

Using the 2002 base year emissions inventory for aircraft, locomotives, and commercial marine vessels (CMV) prepared as described earlier in this document, corresponding emission projections for 2009 and 2018 were developed in both the fall of 2004 (Base F) and the spring of 2006 (Base G). This section describes the procedures employed in developing those inventories. The information presented is intended to build off of that presented in the section describing the 2002 Base F base year inventory. It should be recognized that for both the Base F and Base G inventories, the base year inventory used to develop the emission forecasts was the latest available at the time of forecast development. Generally, this means that the 2002 base year inventory as updated through the fall of 2004 was used as the basis for the Base F projection year inventory development, and the Base F 2002 base year inventory was used as the basis for Base G projection year inventory development. Thus, all base year revisions (as described earlier in this document) are inherently incorporated into the associated projection year revisions.

#### **Base F Revisions:**

Table 2.3-6 shows the 2002 base year emissions for each State in the VISTAS region for aircraft, locomotives and CMV (as they existed prior to Base F development).



**Table 2.3-6 Pre-Base F 2002 Aircraft, Locomotive, and Non-Recreational  
Marine Emissions  
(annual tons, as of the fall of 2004)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 3,787          | 175             | 226              | 87                | 17              | 196           |
|                                | FL           | 25,431         | 8,891           | 2,424            | 2,375             | 800             | 3,658         |
|                                | GA           | 6,620          | 5,372           | 1,475            | 1,446             | 451             | 443           |
|                                | KY           | 2,666          | 657             | 179              | 175               | 63              | 263           |
|                                | MS           | 1,593          | 140             | 44               | 43                | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 419              | 411               | 148             | 613           |
|                                | SC           | 6,505          | 515             | 409              | 401               | 88              | 863           |
|                                | TN           | 7,251          | 2,766           | 734              | 719               | 235             | 943           |
|                                | VA           | 9,763          | 2,756           | 1,137            | 1,115             | 786             | 2,529         |
|                                | WV           | 1,178          | 78              | 25               | 24                | 8               | 66            |
|                                | <b>Total</b> | <b>70,882</b>  | <b>22,899</b>   | <b>7,072</b>     | <b>6,797</b>      | <b>2,607</b>    | <b>9,670</b>  |
| Commercial<br>Marine<br>(2280) | AL           | 1,196          | 9,218           | 917              | 844               | 3,337           | 737           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,875           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,688          | 43,233          | 1,903            | 1,751             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 3,624          | 27,555          | 1,217            | 1,120             | 4,974           | 860           |
|                                | VA           | 972            | 2,775           | 334              | 307               | 359             | 483           |
|                                | WV           | 1,528          | 11,586          | 487              | 448               | 525             | 362           |
|                                | <b>Total</b> | <b>28,207</b>  | <b>209,972</b>  | <b>9,911</b>     | <b>9,118</b>      | <b>36,275</b>   | <b>7,413</b>  |
| Military Marine<br>(2283)      | VA           | 110            | 313             | 25               | 23                | 27              | 48            |
|                                | <b>Total</b> | <b>110</b>     | <b>313</b>      | <b>25</b>        | <b>23</b>         | <b>27</b>       | <b>48</b>     |
| Locomotives<br>(2285)          | AL           | 3,490          | 26,339          | 592              | 533               | 1,446           | 1,354         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,654          | 26,733          | 664              | 598               | 1,622           | 1,059         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 2,626          | 25,627          | 633              | 570               | 1,439           | 1,041         |
|                                | VA           | 1,186          | 11,882          | 1,529            | 1,375             | 3,641           | 492           |
|                                | WV           | 1,311          | 13,224          | 329              | 296               | 808             | 517           |
|                                | <b>Total</b> | <b>19,540</b>  | <b>187,044</b>  | <b>5,815</b>     | <b>5,232</b>      | <b>14,022</b>   | <b>7,750</b>  |
| <b>Grand Total</b>             |              | <b>118,739</b> | <b>420,228</b>  | <b>22,823</b>    | <b>21,170</b>     | <b>52,931</b>   | <b>24,881</b> |



Although some of the data utilized was updated, the methodology used to develop the Base F 2009 and 2018 emissions forecasts for aircraft, locomotives, and CMV is identical to that used earlier to develop preliminary 2018 Base 1 (“On the Books”) and 2018 Base 2 (“On the Way”) inventories. Briefly, the methodology relies on growth and control factors developed from inventories used in support of recent EPA rulemakings, and consists of the following steps:

- (a) Begin with the 2002 base year emission estimates for aircraft, locomotive, and CMV as described above (at the State-county-SCC-pollutant level of detail).
- (b) Detailed inventory data (both before and after controls) for these same emission sources for 1996, 2010, 2015, and 2020 were obtained from the EPA's Clean Air Interstate Rule (CAIR) Technical Support Document (which can be found at <http://www.epa.gov/cair/pdfs/finaltech01.pdf>). Using these data, combined growth and control factors for the period 2002-2009 and 2002-2018 were estimated using straight line interpolation between 1996 and 2010 (for 2009) and 2015 and 2020 (for 2018). This is done at the State-county-SCC-pollutant level of detail.
- (c) The EPA growth and control data are matched against the 2002 VISTAS base year data using State-county-SCC-pollutant as the match key. Ideally, there would be a one-to-one match and the process would end at this point. Unfortunately, actual match results were not always ideal, so additional matching criteria were required. For subsequent reference, this initial (highest resolution) matching criterion is denoted as the “CAIR-Primary” criterion.
- (d) A second matching criterion is applied that utilizes a similar, but higher-level SCC (lower resolution) matching approach. For example, SCC 2275020000 (commercial aircraft) in the 2002 base year inventory data would be matched with SCC 2275000000 (all aircraft) in the CAIR data. This criterion is applied to records in the 2002 base year emissions file that are not matched using the “CAIR-Primary” criterion, and is also performed at the State-county-SCC-pollutant level of detail. For subsequent reference, this is denoted as the “CAIR-Secondary” criterion. At the end of this process, a number of unmatched records remained, so a third level matching criterion was required.
- (e) In the third matching step, the most frequently used SCC in the EPA CAIR files for each of the aircraft, locomotive, and commercial marine sectors was averaged at the State level to produce a “default” State and pollutant-specific growth and control factor for the sector. The resulting factor is used as a “default” growth factor for all unmatched county-SCC-pollutant level data in each State. In effect, State-specific growth data are applied to county level data for which an explicit match between the VISTAS 2002 base year data and EPA CAIR data could not be developed. The default growth and control



SCCs are 2275020000 (commercial aircraft) for the aircraft sector, 2280002000 (commercial marine diesel total) for the CMV sector, and 2285002000 (railroad equipment diesel total) for the locomotive sector. Matches made using this criterion are denoted as “CAIR-Tertiary” matches.

- (f) According to EPA documentation, the CAIR baseline emissions include the impacts of the (then proposed) Tier 4 (T4) non-road diesel rulemaking, which implements a low sulfur fuel requirement that affects both future CMV and locomotive emissions. However, the impacts of this rule were originally intended to be excluded from the initial VISTAS 2018 forecast, which was to include only “on-the-books” controls. (The T4 rule was finalized subsequent to the development of the preliminary 2018 inventory in March of 2004.) Given its final status, T4 impacts were moved into the “on the books” inventory for non-road equipment. In addition, since there are no other proposed rules affecting the non-road sector between 2002 and 2018, there is no difference between the 2018 “on the books” and 2018 “on the way” inventories for the sector; so that only a single forecast inventory (for each evaluation year) was developed. Nevertheless, since the algorithms developed to produce the VISTAS forecasts were developed when there was a distinction between the “on the books” and “on the way” inventories, the distinct algorithms used to produce the two inventories have been maintained even though the conceptual distinctions have been lost. This approach was taken for two reasons. First, it allowed the previously developed algorithms to be utilized without change. Second, it allowed for separate treatment of the T4 emissions impact which was important as those impacts changed between the proposed and final T4 rules. Thus, previous EPA inventories that include the proposed T4 impacts would not be accurate. Therefore, the procedural discussion continues to reflect the distinctions between non-T4 and T4 emissions, as these distinctions continue to be intrinsically important to the forecasting process. Therefore, a second set of EPA CAIR files that excluded the Tier 4 diesel impacts was obtained and the same matching exercise described above in steps (b) through (e) was performed using these “No T4” files. It is important to note that the matching exercise described in steps (b) through (e) cannot simply be replaced because the “No T4” files obtained from the EPA include only those SCCs specifically affected by the T4 rule (i.e., diesel CMV and locomotives). So in effect, the matching exercise was augmented (rather than replaced) with an additional three criteria analogous to those described in steps (c) through (e), and these are denoted as the “No T4-Primary,” “No T4-Secondary,” and “No T4-Tertiary” criteria. Because they exclude the impacts of the proposed T4 rule, matches using the “No T4” criteria supersede matches made using the basic CAIR criteria (as described in steps (c) through (e) above).



- (g) The CAIR matching criteria were overridden for any record for which States provided local growth data. Only North Carolina provided these forecasts, as that State has provided specific growth factors for airport emissions in four counties. Because the provided data were based on forecasted changes in landings and takeoffs at major North Carolina airports, the factors were applied only to commercial (SCC 2275020000) and air taxi (SCC 2275060000) emissions. Emissions forecasts for military and general aviation aircraft operations, as well as all aircraft operations in counties other than the four identified in the North Carolina growth factor submission, continued to utilize the growth factors developed according to steps (b) through (f) above. Table 2.3-7 presents the locally generated growth factors applied in North Carolina.

**Table 2.3-7 Locally Generated Growth Factors for North Carolina**

| FIP   | 2009 Factor | 2018 Factor |
|-------|-------------|-------------|
| 37067 | 0.71        | 0.84        |
| 37081 | 0.97        | 0.89        |
| 37119 | 1.15        | 1.01        |
| 37183 | 0.88        | 0.81        |

**Note:**

Growth factor = Year Emissions/2002 Emissions.

Under CAIR approach, 2009 = 1.16 to 1.17 for all 4 counties.

Under CAIR approach, 2018 = 1.36 to 1.37 for all 4 counties.

- (h) Using this approach, each State-county-SCC-pollutant was assigned a combined growth and control factor using the EPA CAIR forecast or locally provided data. The 22,838 data records for aircraft, locomotives, and CMV in the 2002 revised base year emissions file were assigned growth factors in accordance with the following breakdown:

48 records matched State-provided growth factors,  
 4,179 records matched using the CAIR-Primary criterion,  
 240 records matched using the CAIR-Secondary criterion,  
 7,463 records matched using the CAIR-Tertiary criterion,  
 720 records matched using the No T4-Primary criterion,  
 3,858 records matched using the No T4-Secondary criterion, and  
 6,330 records matched using the No T4-Tertiary criterion.

- (i) Finally, the impacts of the T4 rule as adopted were applied to the grown “non T4” emission estimates. The actual T4 emission standards do not affect aircraft, locomotive, or CMV directly, but associated diesel fuel sulfur requirements do affect locomotives and CMV. Lower fuel sulfur content affects both SO<sub>2</sub> and PM emissions. Expected fuel sulfur



contents were obtained for each evaluation year from the EPA technical support document for the final T4 rule (*Final Regulatory Analysis: Control of Emissions from Non-road Diesel Engines*, EPA420-R-04-007, May 2004). According to that document, the average diesel fuel sulfur content for locomotives and CMV is expected to be 408 ppmW in 2009 and 56 ppmW in 2018. These compare to expected non-T4 fuel sulfur levels of 2599 ppmW in 2009 and 2336 ppmW in 2018. Table 2.3-8 uses calculated emissions estimates for base and T4 control scenarios to estimate emission reduction impacts.

**Table 2.3-8 Estimated Emission Reduction Impacts based on T-4 Rule**

|                            |   |                        |   | 2009   | 2018   |
|----------------------------|---|------------------------|---|--------|--------|
| CMV SO <sub>2</sub>        | = | Non-T4 SO <sub>2</sub> | × | 0.1569 | 0.0241 |
| Locomotive SO <sub>2</sub> | = | Non-T4 SO <sub>2</sub> | × | 0.1569 | 0.0241 |
| CMV PM                     | = | Non-T4 PM              | × | 0.8962 | 0.8762 |
| Locomotive PM              | = | Non-T4 PM              | × | 0.8117 | 0.7734 |

However, since the diesel fuel sulfur content assumed for the 2002 VISTAS base year inventory, upon which both the 2009 and 2018 inventories were based, is 2500 ppmW, a small adjustment to the emission reduction multipliers calculated from the T4 rule is appropriate since they are measured relative to modestly different sulfur contents (2599 ppmW for 2009 and 2336 ppmW for 2018). Correcting for these modest differences produces the emission reduction impact estimates relative to forecasts based on the VISTAS 2002 inventory shown in Table 2.3-9.

**Table 2.3-9 Estimated Emission Reduction Impacts Relative to VISTAS 2002 Base Year Values**

|                            |   |                        |   | 2009   | 2018   |
|----------------------------|---|------------------------|---|--------|--------|
| CMV SO <sub>2</sub>        | = | Non-T4 SO <sub>2</sub> | × | 0.1632 | 0.0225 |
| Locomotive SO <sub>2</sub> | = | Non-T4 SO <sub>2</sub> | × | 0.1632 | 0.0225 |
| CMV PM                     | = | Non-T4 PM              | × | 0.9004 | 0.8685 |
| Locomotive PM              | = | Non-T4 PM              | × | 0.8187 | 0.7610 |

These factors were applied directly to the non-T4 emission forecasts to produce the final VISTAS 2009 and 2018 emissions inventories for aircraft, locomotive, and CMV.

The only exception is for Palm Beach County, Florida, where CMV emissions are reported as “all fuels” rather than separately by residual and diesel fuel components. To estimate T4 impacts in Palm Beach County, the ratio of diesel CMV emissions to total



CMV emissions in the remainder of Florida was calculated and the T4 impact estimates for Palm Beach County were adjusted to reflect that ratio. Table 2.3-10 shows the calculated diesel CMV ratios.

**Table 2.3-10 Diesel CMV Adjustment Ratios for Palm Beach County, FL**

| GROWTH BASIS                                   | SO <sub>2</sub> | PM     |
|--|-----------------|--------|
| 2009 (1996, 2020 Growth Basis)                 | 0.2410          | 0.7861 |
| 2009 (1996, 2010, 2015, and 2020 Growth Basis) | 0.1279          | 0.7875 |
| 2018 (1996, 2020 Growth Basis)                 | 0.2432          | 0.7925 |
| 2018 (1996, 2010, 2015, and 2020 Growth Basis) | 0.2624          | 0.7918 |

*The differences between the growth bases are discussed in detail below.*

Combining these ratios with the T4 impact estimates for diesel engines, as presented above, yields the following impact adjustment factors for Palm Beach County:

**Table 2.3-11 Overall Adjustment Factors for Palm Beach County, FL**

| GROWTH BASIS   |        |   |
|--|--------|---|
| 2009 SO <sub>2</sub> (19, 20 Growth Basis)             | 0.7894 | $[0.1632 \times 0.2410 + (1 - 0.2410)]$ |
| 2009 SO <sub>2</sub> (96, 10, 15, and 20 Growth Basis) | 0.8930 | $[0.1632 \times 0.1279 + (1 - 0.1279)]$ |
| 2018 SO <sub>2</sub> (96, 20 Growth Basis)             | 0.7623 | $[0.0225 \times 0.2432 + (1 - 0.2432)]$ |
| 2018 SO <sub>2</sub> (96, 10, 15, and 20 Growth Basis) | 0.7436 | $[0.0225 \times 0.2624 + (1 - 0.2624)]$ |
| 2009 PM (19, 20 Growth Basis)                          | 0.9217 | $[0.9004 \times 0.7861 + (1 - 0.7861)]$ |
| 2009 PM (96, 10, 15, and 20 Growth Basis)              | 0.9216 | $[0.9004 \times 0.7875 + (1 - 0.7875)]$ |
| 2018 PM (96, 20 Growth Basis)                          | 0.8958 | $[0.8685 \times 0.7925 + (1 - 0.7925)]$ |
| 2018 PM (96, 10, 15, and 20 Growth Basis)              | 0.8959 | $[0.8685 \times 0.7918 + (1 - 0.7918)]$ |

*The differences between the growth bases are discussed in detail below.*

Utilizing this approach, emission inventory forecasts for both 2009 and 2018 were developed. As indicated in step (b) above, basic growth factors were developed using EPA CAIR inventory data for 1996, 2010, 2015, and 2020. From these data, equivalent EPA CAIR inventories for 2002 and 2009 were developed through linear interpolation of the 1996 and 2010 inventories, while an equivalent CAIR inventory for 2018 was developed through linear interpolation of the 2015 and 2020 inventories. Growth factors for 2009 and 2018 were then estimated as the ratios of the CAIR 2009 and 2018 inventories to the CAIR 2002 inventory.

During the development of the preliminary 2018 VISTAS inventory in March 2004, this process yielded reasonable results and exhibited no particular systematic concerns. However, when the 2009 Base F inventory was developed, significant concerns related to SO<sub>2</sub> and PM were encountered. Essentially, what was revealed by the Base F 2009 forecast was a series of apparent



inconsistencies in the CAIR 2010 and 2015 emission inventories (as compared to the 1996 and 2020 CAIR inventories) that were masked during the construction of the “longer-term” 2018 inventory.

The apparent inconsistencies are best illustrated by looking at the actual data extracted from the CAIR inventory files. Note that although a limited example is being presented, the same general issue applies throughout the CAIR files. For FIP 01001 (Autauga County, Alabama) and SCC 2285002000 (Diesel Rail), the CAIR inventories indicate SO<sub>2</sub> emission estimates as shown in Table 2.3-12.

**Table 2.3-12 SO<sub>2</sub> Emissions for Diesel Rail in Autauga County, AL from the CAIR Projections**

| YEAR  | TONS    |
|-------|---------|
| 1996: | 15.3445 |
| 2010: | 2.7271  |
| 2015: | 2.8178  |
| 2020: | 16.6232 |

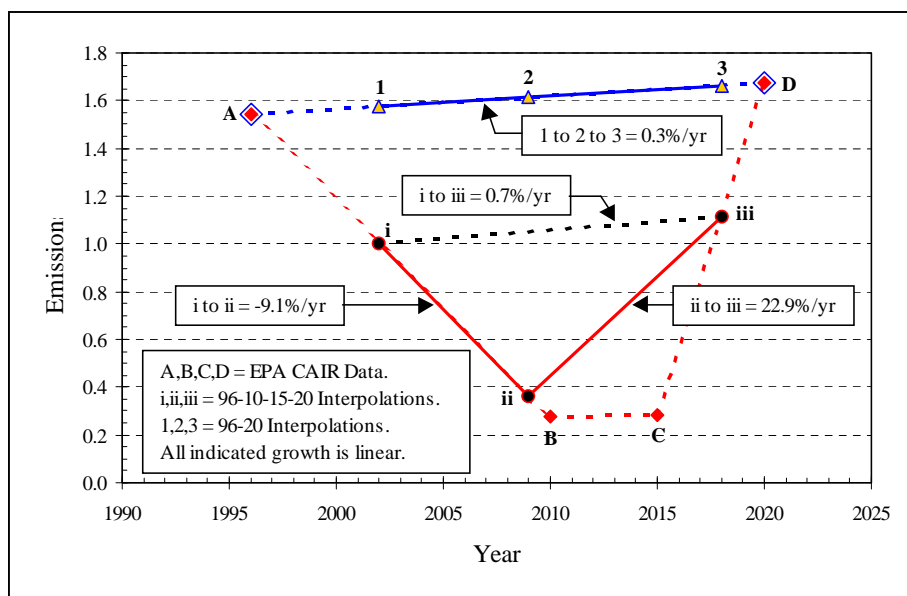
Clearly, there is a major drop in emissions between 1996 and 2010, followed by a major increase in emissions between 2010 and 2020. Several observations regarding these changes are important. First, the CAIR data were reported to exclude the T4 rule, so that the drop in emissions should be related to something other than simply a change in diesel fuel sulfur content. Second, if the T4 rule impacts were “accidentally” included in the estimates, there should be a resultant 90 percent drop in diesel sulfur between 2010 and 2015; so such inclusion is unlikely. Third, the rate of growth between 2010 and 2020 (43 percent *per year* compound or 97 percent *per year* linear) is well beyond any reasonable expectations for rail service; and fuel sulfur content during this period is constant both with and without T4. In short, there appeared to be no rational explanation for the data, yet the same basic relations are observed for thousands of CAIR inventory records.

For the most part, the issue seems to be centered on SO<sub>2</sub> and PM records, which are those records primarily affected by the T4 rule. But, as noted above, there does not seem to be any pattern of consistency that would indicate that either inclusion or exclusion of T4 rule impacts is the underlying cause. Moreover, where they occur, the observed growth extremes generally affect both SO<sub>2</sub> and PM equally, while one would expect PM effects to be buffered if the T4 rule was the underlying cause, since changes in diesel fuel sulfur content will only affect a fraction of PM (i.e., sulfate), while directly reducing SO<sub>2</sub>.



The data presented in Figure 2.3-1 illustrates what this meant to the VISTAS forecasting process. Figure 2.3-1 depicts the same data presented above for Autauga County, Alabama, but normalized so that the interpolated 2002 CAIR emissions estimate equals unity. The “raw” CAIR data is depicted by the markers labeled A, B, C, and D. Interpolated data for 2002 and 2009, based on 1996 and 2010 CAIR data, is depicted by the markers labeled “i” and “ii.” Interpolated data for 2018, based on 2015 and 2020 CAIR data is depicted by the marker labeled “iii.” The relationship between marker “iii” and marker “i” is exactly the relationship used to construct the preliminary (e.g., pre-Base F) 2018 VISTAS inventory (i.e., a linear growth rate equal to 0.7 percent per year). Thus, it is easy to see that although there is a major “dip and rise” between 2002 and 2018, it is essentially masked unless data for intervening years are examined. Since no intervening year was examined for the preliminary 2018 inventory, the “dip and rise” was not discovered. However, upon the development of the 2009 inventory forecast, the issue became obvious, as the marker labeled “ii” readily illustrates. In effect, the 2009 inventory reflected very low negative “growth rates” for some SCCs and pollutants relative to the 2002 inventory, while the 2018 inventory reflected very high and positive growth rates for those same SCCs and pollutants. In effect, the path between 2002 and 2018 that previously looked like the dotted line connecting markers “i” and “iii,” now looks like the solid line connecting markers “i,” “ii,” and “iii.” For reference purposes, this path is hereafter referred to as the 1996, 2010, 2015, and 2020 growth basis, since all interpolated data is based on CAIR data for those four years.

**Figure 2.3-1 Impacts of the Apparent CAIR Inventory Discrepancy**





In light of the apparent discrepancies inherent in the 1996, 2010, 2015, and 2020 growth basis data and the inconsistencies its use would impart into the 2009 and 2018 VISTAS inventories, a secondary forecasting method was developed. This second method relies on the apparent consistency between the 1996 and 2020 non-T4 CAIR inventories, interpolating equivalent 2002, 2009, and 2018 inventories solely from these two inventories. In effect, the CAIR inventories for 2010 and 2015 are ignored. In Figure 2.3-1, this secondary approach is depicted by the data points that lie along the lines connecting markers A and D. Markers A and D represent the 1996 and 2020 CAIR inventories, and the markers labeled 1, 2, and 3 represent the interpolated 2002, 2009, and 2018 CAIR equivalent inventories. The growth rate between 2009 and 2002 is then equal to the ratio of the 2009 and 2002 CAIR inventories, while that between 2018 and 2002 is equal to the ratio of the 2018 and 2002 CAIR inventories. For the example data, the resulting linear growth estimate is 0.3 percent per year. For reference purposes, this path is hereafter referred to as the 1996-2020 growth basis, since all interpolated data are based on CAIR data for only those two years.

It is perhaps worth noting that the only elements of Figure 2.3-1 that have any bearing on the VISTAS inventories are the growth rates. The absolute CAIR data are of importance only in determining those rates, as all VISTAS inventories were developed on the basis of the VISTAS 2002 base year inventory, not any of the CAIR inventories. So referring to Figure 2.3-1, the two growth options are summarized in Table 2.3-13.

**Table 2.3-13 Growth Options based on CAIR Data**

| <b>GROWTH BASIS</b>                  | <b>PERCENT PER YEAR</b>                        |
|--------------------------------------|--|
| 1996, 2010, 2015, 2020 Growth Basis: | -9.1% per year (linear) between 2002 and 2009  |
| 1996-2020 Growth Basis:              | +0.3% per year (linear) between 2002 and 2009  |
| 1996, 2010, 2015, 2020 Growth Basis: | +22.9% per year (linear) between 2009 and 2018 |
| 1996-2020 Growth Basis:              | +0.3% per year (linear) between 2009 and 2018  |
| 1996, 2010, 2015, 2020 Growth Basis: | +0.7% per year (linear) between 2002 and 2018  |
| 1996-2020 Growth Basis:              | +0.3% per year (linear) between 2002 and 2018  |

Of course, these specific rates are applicable only to the example case (i.e., diesel rail SO<sub>2</sub> in Autauga County, Alabama), but there are thousands of additional CAIR records that are virtually identical from a growth viewpoint.

While forecast inventories for aircraft, locomotives, and CMV were developed for 2009 and 2018 using both growth methods, it was ultimately decided to utilize the 1996-2020 growth basis for Base F since it provided more reasonable growth rates for 2009. Tables 2.3-14 and 2.3-15 present a summary of each Base F inventory, while Tables 2.3-16 and 2.3-17 present the associated change in emissions for each Base F forecast inventory relative to the Base F 2002 base year VISTAS inventory. The larger reduction in CMV SO<sub>2</sub> emissions in 2009 and 2018



(relative to 2002) for Virginia and West Virginia is notable relative to the other VISTAS States, but this has been checked and is attributable to a high diesel contribution to total CMV SO<sub>2</sub> in the 2002 inventories for these two States.

Figures 2.3-2 through 2.3-13 graphically depict the relationships between the various Base F inventories and preliminary 2002 and 2018 projections prepared prior to Base F. There are two figures for each pollutant, the first of which presents a comparison of total VISTAS regional emission estimates for aircraft, locomotives, and CMV, and the second of which presents total VISTAS region emission estimates for locomotives only. This two figure approach is intended to provide a more robust illustration of the differences between the various inventories, as some of the differences are less distinct when viewed through overall aggregate emissions totals. All of the figures include the following emissions estimates:

- The 2002 Base F base year VISTAS emissions inventory (labeled as “2002”),
- The 2002 pre-Base F base year VISTAS emissions inventory (labeled as “2002 Prelim”),
- The Base F 2009 VISTAS emissions inventory developed using growth rates derived from 1996 and 2020 EPA CAIR data (labeled as “2009”),
- The Base F 2018 VISTAS emissions inventory developed using growth rates derived from 1996 and 2020 EPA CAIR data (labeled as “2018”), and
- The pre-Base F 2018 VISTAS emissions inventory estimates as developed using growth rates derived from 1996, 2010, 2015, and 2020 EPA CAIR data (labeled as “2018 Prelim”).

All 12 figures generally illustrate a reduction in emissions estimates between the 2002 pre-Base F emission estimates published in February 2004 (the initial 2002 VISTAS inventory) and the 2002 Base F emission estimates. This reduction generally results from emission updates reflected in the State 2002 CERR submittals used to develop the Base F 2002 base year inventory, although the major differences in aggregate PM emission estimates are driven to a greater extent by modifications in the methodology used to estimate aircraft PM in the Base F 2002 base year inventory (as documented under the base year inventory section of this report).



**Table 2.3-14 Base F 2009 Aircraft, Locomotive, and Non-Recreational Marine Emissions  
(annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 4,178          | 202             | 278              | 102               | 19              | 217           |
|                                | FL           | 29,258         | 10,316          | 2,812            | 2,756             | 928             | 4,235         |
|                                | GA           | 7,635          | 6,233           | 1,712            | 1,678             | 523             | 512           |
|                                | KY           | 3,075          | 762             | 207              | 203               | 73              | 304           |
|                                | MS           | 1,765          | 162             | 51               | 50                | 16              | 108           |
|                                | NC           | 6,551          | 1,601           | 436              | 427               | 153             | 644           |
|                                | SC           | 7,372          | 559             | 446              | 437               | 98              | 975           |
|                                | TN           | 8,020          | 3,096           | 824              | 807               | 268             | 1,050         |
|                                | VA           | 10,994         | 3,094           | 1,239            | 1,214             | 907             | 2,892         |
|                                | WV           | 1,312          | 91              | 28               | 28                | 9               | 74            |
|                                | <b>Total</b> | <b>80,159</b>  | <b>26,116</b>   | <b>8,033</b>     | <b>7,704</b>      | <b>2,993</b>    | <b>11,011</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,280          | 8,888           | 872              | 802               | 2,753           | 768           |
|                                | FL           | 6,236          | 43,198          | 1,838            | 1,691             | 5,864           | 1,467         |
|                                | GA           | 1,097          | 7,599           | 317              | 291               | 974             | 256           |
|                                | KY           | 7,087          | 48,039          | 2,158            | 1,985             | 8,350           | 1,649         |
|                                | MS           | 6,074          | 41,437          | 1,821            | 1,676             | 6,587           | 1,415         |
|                                | NC           | 634            | 4,386           | 184              | 169               | 584             | 148           |
|                                | SC           | 1,133          | 7,796           | 326              | 300               | 1,012           | 264           |
|                                | TN           | 3,887          | 26,333          | 1,168            | 1,074             | 4,512           | 904           |
|                                | VA           | 1,042          | 2,662           | 312              | 286               | 61              | 506           |
|                                | WV           | 1,638          | 11,073          | 455              | 419               | 89              | 381           |
|                                | <b>Total</b> | <b>30,109</b>  | <b>201,412</b>  | <b>9,450</b>     | <b>8,693</b>      | <b>30,786</b>   | <b>7,759</b>  |
| Military Marine<br>(2283)      | VA           | 118            | 299             | 23               | 21                | 5               | 50            |
|                                | <b>Total</b> | <b>118</b>     | <b>299</b>      | <b>23</b>        | <b>21</b>         | <b>5</b>        | <b>50</b>     |
| Locomotives<br>(2285)          | AL           | 3,648          | 23,529          | 452              | 406               | 242             | 1,279         |
|                                | FL           | 1,052          | 8,905           | 189              | 170               | 101             | 382           |
|                                | GA           | 2,769          | 24,398          | 507              | 456               | 271             | 1,003         |
|                                | KY           | 2,264          | 19,597          | 415              | 374               | 221             | 819           |
|                                | MS           | 2,406          | 20,785          | 441              | 397               | 239             | 849           |
|                                | NC           | 1,712          | 14,741          | 313              | 282               | 167             | 618           |
|                                | SC           | 1,213          | 10,443          | 222              | 200               | 119             | 437           |
|                                | TN           | 2,745          | 23,924          | 483              | 435               | 240             | 984           |
|                                | VA           | 1,236          | 11,134          | 1,167            | 1,050             | 608             | 467           |
|                                | WV           | 1,369          | 12,177          | 251              | 226               | 135             | 489           |
|                                | <b>Total</b> | <b>20,412</b>  | <b>169,635</b>  | <b>4,440</b>     | <b>3,995</b>      | <b>2,343</b>    | <b>7,328</b>  |
| <b>Grand Total</b>             |              | <b>130,798</b> | <b>397,462</b>  | <b>21,946</b>    | <b>20,413</b>     | <b>36,126</b>   | <b>26,148</b> |



**Table 2.3-15 Base F 2018 Aircraft, Locomotive, and Non-Recreational Marine Emissions  
(annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 4,681          | 236             | 345              | 122               | 23              | 245           |
|                                | FL           | 34,178         | 12,147          | 3,312            | 3,246             | 1,093           | 4,976         |
|                                | GA           | 8,939          | 7,340           | 2,016            | 1,976             | 616             | 601           |
|                                | KY           | 3,602          | 898             | 244              | 239               | 86              | 357           |
|                                | MS           | 1,986          | 190             | 60               | 58                | 18              | 122           |
|                                | NC           | 6,728          | 1,454           | 400              | 392               | 139             | 615           |
|                                | SC           | 8,487          | 616             | 493              | 484               | 112             | 1,119         |
|                                | TN           | 9,009          | 3,519           | 939              | 921               | 309             | 1,187         |
|                                | VA           | 12,578         | 3,528           | 1,370            | 1,342             | 1,063           | 3,358         |
|                                | WV           | 1,484          | 106             | 33               | 33                | 10              | 85            |
|                                | <b>Total</b> | <b>91,670</b>  | <b>30,035</b>   | <b>9,213</b>     | <b>8,814</b>      | <b>3,468</b>    | <b>12,666</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,388          | 8,464           | 880              | 809               | 2,715           | 809           |
|                                | FL           | 6,684          | 41,117          | 1,853            | 1,705             | 6,248           | 1,543         |
|                                | GA           | 1,174          | 7,246           | 319              | 293               | 976             | 269           |
|                                | KY           | 7,703          | 45,174          | 2,199            | 2,023             | 8,383           | 1,752         |
|                                | MS           | 6,571          | 39,129          | 1,850            | 1,702             | 6,556           | 1,498         |
|                                | NC           | 679            | 4,179           | 185              | 170               | 596             | 155           |
|                                | SC           | 1,217          | 7,406           | 329              | 303               | 1,027           | 278           |
|                                | TN           | 4,225          | 24,763          | 1,190            | 1,095             | 4,808           | 960           |
|                                | VA           | 1,133          | 2,517           | 314              | 289               | 9               | 537           |
|                                | WV           | 1,781          | 10,412          | 459              | 422               | 13              | 404           |
|                                | <b>Total</b> | <b>32,554</b>  | <b>190,407</b>  | <b>9,578</b>     | <b>8,811</b>      | <b>31,330</b>   | <b>8,205</b>  |
| Military Marine<br>(2283)      | VA           | 128            | 282             | 23               | 21                | 1               | 53            |
|                                | <b>Total</b> | <b>128</b>     | <b>282</b>      | <b>23</b>        | <b>21</b>         | <b>1</b>        | <b>53</b>     |
| Locomotives<br>(2285)          | AL           | 3,850          | 19,917          | 381              | 343               | 34              | 1,183         |
|                                | FL           | 1,110          | 7,538           | 159              | 143               | 14              | 353           |
|                                | GA           | 2,917          | 21,395          | 427              | 385               | 38              | 932           |
|                                | KY           | 2,389          | 16,751          | 352              | 317               | 31              | 757           |
|                                | MS           | 2,540          | 17,594          | 372              | 335               | 34              | 785           |
|                                | NC           | 1,807          | 12,478          | 264              | 237               | 24              | 571           |
|                                | SC           | 1,280          | 8,840           | 187              | 168               | 17              | 404           |
|                                | TN           | 2,897          | 21,735          | 407              | 367               | 34              | 910           |
|                                | VA           | 1,300          | 10,173          | 983              | 885               | 86              | 436           |
|                                | WV           | 1,444          | 10,831          | 212              | 190               | 19              | 453           |
|                                | <b>Total</b> | <b>21,534</b>  | <b>147,252</b>  | <b>3,744</b>     | <b>3,368</b>      | <b>333</b>      | <b>6,785</b>  |
| <b>Grand Total</b>             |              | <b>145,885</b> | <b>367,975</b>  | <b>22,557</b>    | <b>21,015</b>     | <b>35,132</b>   | <b>27,709</b> |



**Table 2.3-16 Change in Emissions between 2009 and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)**

| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC         |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|-------------|
| Aircraft<br>(2275)             | AL           | +10%        | +15%            | +23%             | +18%              | +16%            | +11%        |
|                                | FL           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | GA           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | KY           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | MS           | +11%        | +16%            | +15%             | +15%              | +16%            | +12%        |
|                                | NC           | +8%         | +3%             | +4%              | +4%               | +3%             | +5%         |
|                                | SC           | +13%        | +9%             | +9%              | +9%               | +12%            | +13%        |
|                                | TN           | +11%        | +12%            | +12%             | +12%              | +14%            | +11%        |
|                                | VA           | +13%        | +12%            | +9%              | +9%               | +15%            | +14%        |
|                                | WV           | +11%        | +16%            | +15%             | +15%              | +16%            | +12%        |
|                                | <b>Total</b> | <b>+13%</b> | <b>+14%</b>     | <b>+14%</b>      | <b>+13%</b>       | <b>+15%</b>     | <b>+14%</b> |
| Commercial<br>Marine<br>(2280) | AL           | +7%         | -4%             | -5%              | -5%               | -18%            | +4%         |
|                                | FL           | +6%         | -4%             | -5%              | -5%               | -12%            | +4%         |
|                                | GA           | +6%         | -3%             | -5%              | -5%               | -17%            | +4%         |
|                                | KY           | +7%         | -4%             | -4%              | -4%               | -13%            | +5%         |
|                                | MS           | +7%         | -4%             | -4%              | -4%               | -15%            | +5%         |
|                                | NC           | +6%         | -4%             | -5%              | -5%               | -15%            | +4%         |
|                                | SC           | +6%         | -4%             | -5%              | -5%               | -16%            | +4%         |
|                                | TN           | +7%         | -4%             | -4%              | -4%               | -9%             | +5%         |
|                                | VA           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | WV           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | <b>Total</b> | <b>+7%</b>  | <b>-4%</b>      | <b>-5%</b>       | <b>-5%</b>        | <b>-15%</b>     | <b>+5%</b>  |
| Military Marine<br>(2283)      | VA           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | <b>Total</b> | <b>+7%</b>  | <b>-4%</b>      | <b>-7%</b>       | <b>-7%</b>        | <b>-83%</b>     | <b>+5%</b>  |
| Locomotives<br>(2285)          | AL           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | FL           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | GA           | +4%         | -9%             | -24%             | -24%              | -83%            | -5%         |
|                                | KY           | +5%         | -10%            | -23%             | -23%              | -83%            | -6%         |
|                                | MS           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | NC           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | SC           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | TN           | +5%         | -7%             | -24%             | -24%              | -83%            | -6%         |
|                                | VA           | +4%         | -6%             | -24%             | -24%              | -83%            | -5%         |
|                                | WV           | +4%         | -8%             | -24%             | -24%              | -83%            | -5%         |
|                                | <b>Total</b> | <b>+4%</b>  | <b>-9%</b>      | <b>-24%</b>      | <b>-24%</b>       | <b>-83%</b>     | <b>-5%</b>  |
| <b>Grand Total</b>             |              | <b>+10%</b> | <b>-5%</b>      | <b>-4%</b>       | <b>-4%</b>        | <b>-32%</b>     | <b>+5%</b>  |

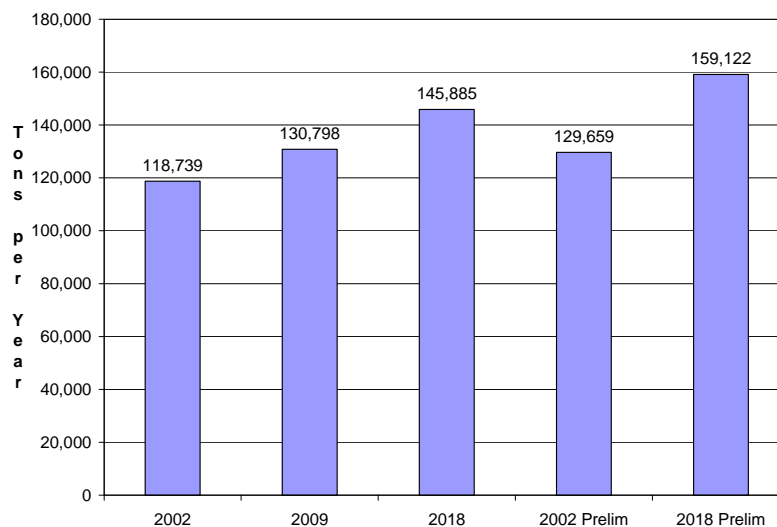


**Table 2.3-17 Change in Emissions between 2018 and 2002 Base F Inventories (Based on Growth Using 1996 and 2020 EPA Inventories)**

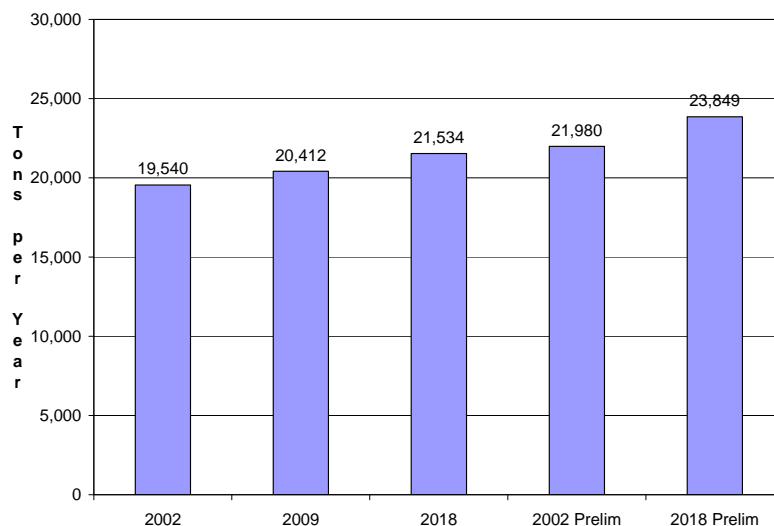
| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC         |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|-------------|
| Aircraft<br>(2275)             | AL           | +24%        | +35%            | +53%             | +41%              | +36%            | +25%        |
|                                | FL           | +34%        | +37%            | +37%             | +37%              | +37%            | +36%        |
|                                | GA           | +35%        | +37%            | +37%             | +37%              | +37%            | +36%        |
|                                | KY           | +35%        | +37%            | +37%             | +37%              | +37%            | +36%        |
|                                | MS           | +25%        | +36%            | +35%             | +35%              | +36%            | +27%        |
|                                | NC           | +10%        | -6%             | -5%              | -5%               | -6%             | 0%          |
|                                | SC           | +30%        | +20%            | +21%             | +21%              | +27%            | +30%        |
|                                | TN           | +24%        | +27%            | +28%             | +28%              | +31%            | +26%        |
|                                | VA           | +29%        | +28%            | +20%             | +20%              | +35%            | +33%        |
|                                | WV           | +26%        | +36%            | +35%             | +35%              | +36%            | +28%        |
|                                | <b>Total</b> | <b>+29%</b> | <b>+31%</b>     | <b>+30%</b>      | <b>+30%</b>       | <b>+33%</b>     | <b>+31%</b> |
| Commercial<br>Marine<br>(2280) | AL           | +16%        | -8%             | -4%              | -4%               | -19%            | +10%        |
|                                | FL           | +14%        | -8%             | -4%              | -4%               | -7%             | +9%         |
|                                | GA           | +13%        | -8%             | -5%              | -5%               | -17%            | +9%         |
|                                | KY           | +17%        | -10%            | -2%              | -2%               | -13%            | +12%        |
|                                | MS           | +16%        | -9%             | -3%              | -3%               | -15%            | +11%        |
|                                | NC           | +13%        | -8%             | -4%              | -4%               | -14%            | +9%         |
|                                | SC           | +14%        | -9%             | -4%              | -4%               | -15%            | +10%        |
|                                | TN           | +17%        | -10%            | -2%              | -2%               | -3%             | +12%        |
|                                | VA           | +17%        | -9%             | -6%              | -6%               | -98%            | +11%        |
|                                | WV           | +17%        | -10%            | -6%              | -6%               | -98%            | +12%        |
|                                | <b>Total</b> | <b>+15%</b> | <b>-9%</b>      | <b>-3%</b>       | <b>-3%</b>        | <b>-14%</b>     | <b>+11%</b> |
| Military Marine<br>(2283)      | VA           | +17%        | -10%            | -6%              | -6%               | -98%            | +12%        |
|                                | <b>Total</b> | <b>+17%</b> | <b>-10%</b>     | <b>-6%</b>       | <b>-6%</b>        | <b>-98%</b>     | <b>+12%</b> |
| Locomotives<br>(2285)          | AL           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | FL           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | GA           | +10%        | -20%            | -36%             | -36%              | -98%            | -12%        |
|                                | KY           | +10%        | -23%            | -35%             | -35%              | -98%            | -13%        |
|                                | MS           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | NC           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | SC           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | TN           | +10%        | -15%            | -36%             | -36%              | -98%            | -13%        |
|                                | VA           | +10%        | -14%            | -36%             | -36%              | -98%            | -11%        |
|                                | WV           | +10%        | -18%            | -36%             | -36%              | -98%            | -12%        |
|                                | <b>Total</b> | <b>+10%</b> | <b>-21%</b>     | <b>-36%</b>      | <b>-36%</b>       | <b>-98%</b>     | <b>-12%</b> |
| <b>Grand Total</b>             |              | <b>+23%</b> | <b>-12%</b>     | <b>-1%</b>       | <b>-1%</b>        | <b>-34%</b>     | <b>+11%</b> |



**Figure 2.3-2 Total Aircraft, Locomotive, and CMV CO Emissions (Base F)**

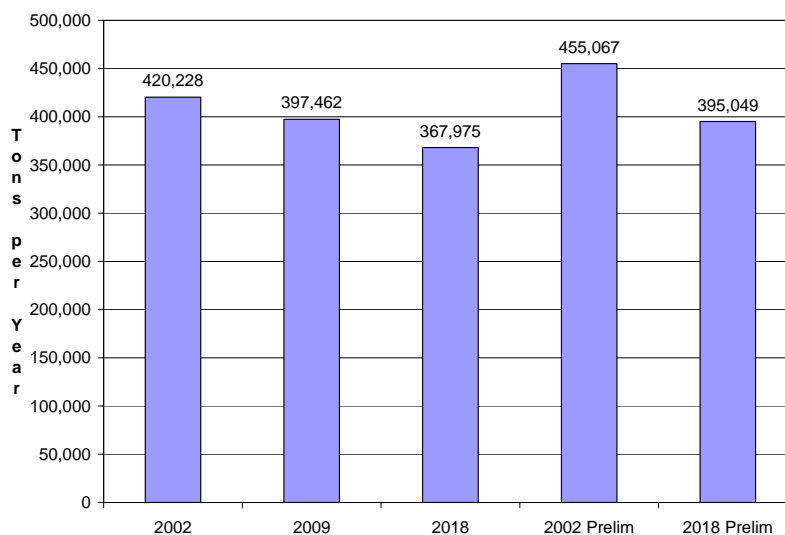


**Figure 2.3-3 Locomotive CO Emissions (Base F)**

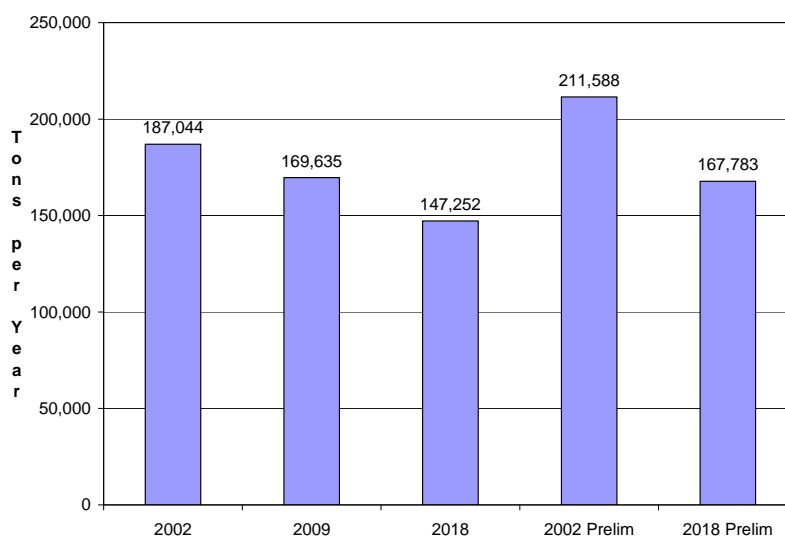




**Figure 2.3-4 Total Aircraft, Locomotive, and CMV NO<sub>x</sub> Emissions (Base F)**

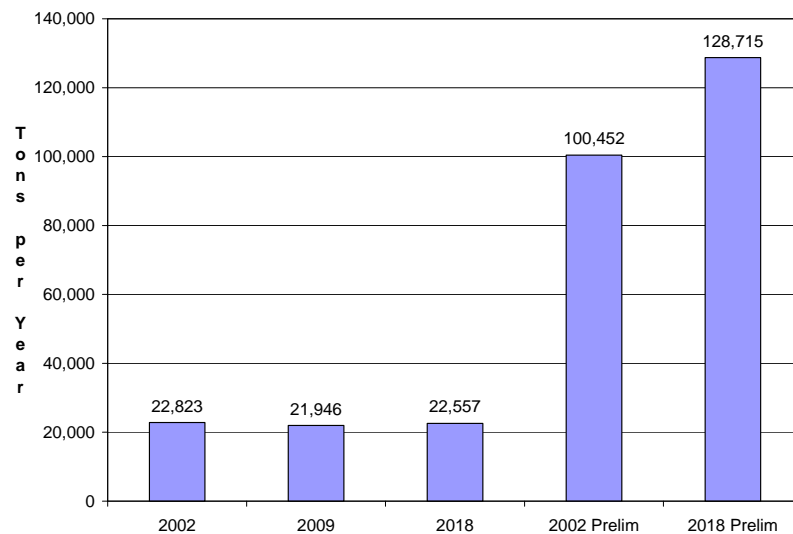


**Figure 2.3-5 Locomotive NO<sub>x</sub> Emissions (Base F)**

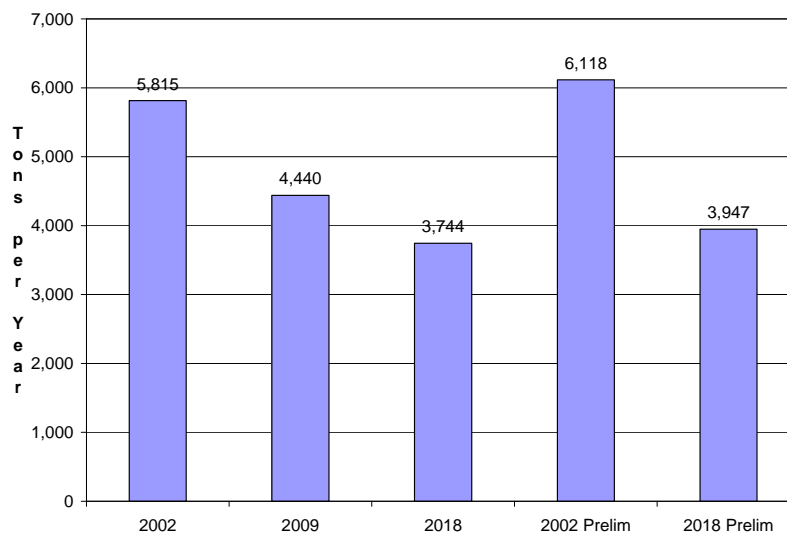




**Figure 2.3-6 Total Aircraft, Locomotive, and CMV PM<sub>10</sub> Emissions (Base F)**

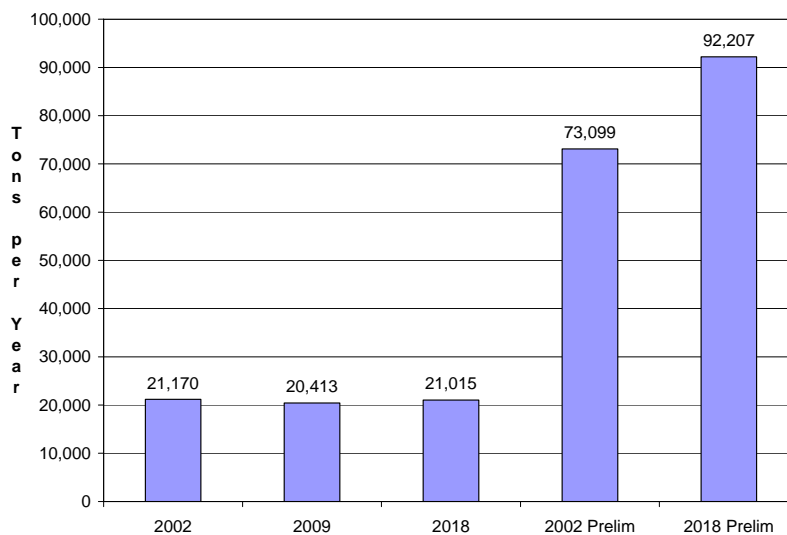


**Figure 2.3-7 Locomotive PM<sub>10</sub> Emissions (Base F)**

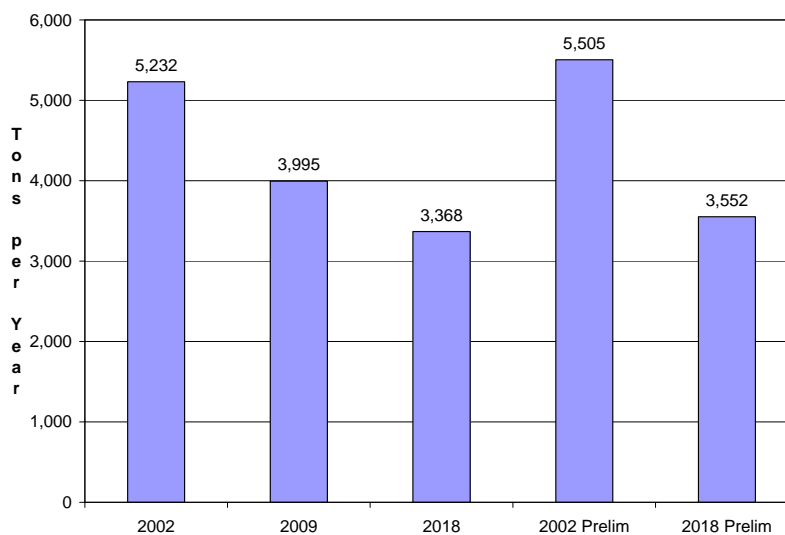




**Figure 2.3-8 Total Aircraft, Locomotive, and CMV PM<sub>2.5</sub> Emissions (Base F)**

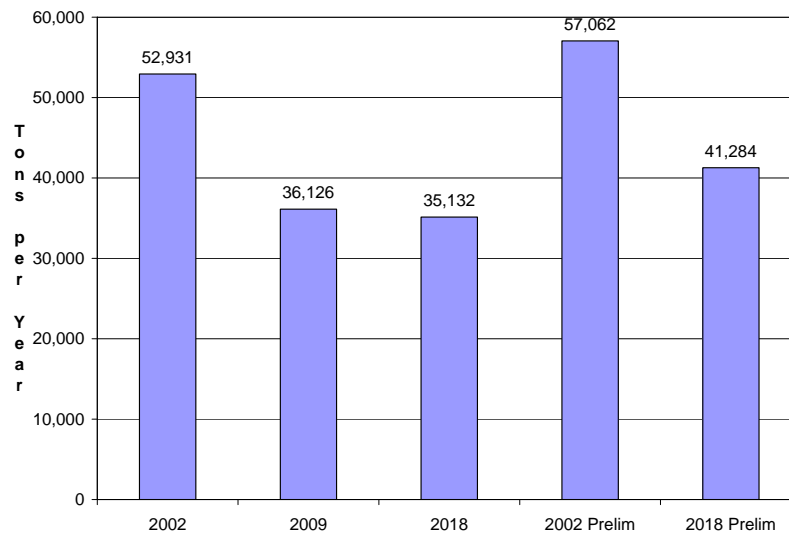


**Figure 2.3-9 Locomotive PM<sub>2.5</sub> Emissions (Base F)**

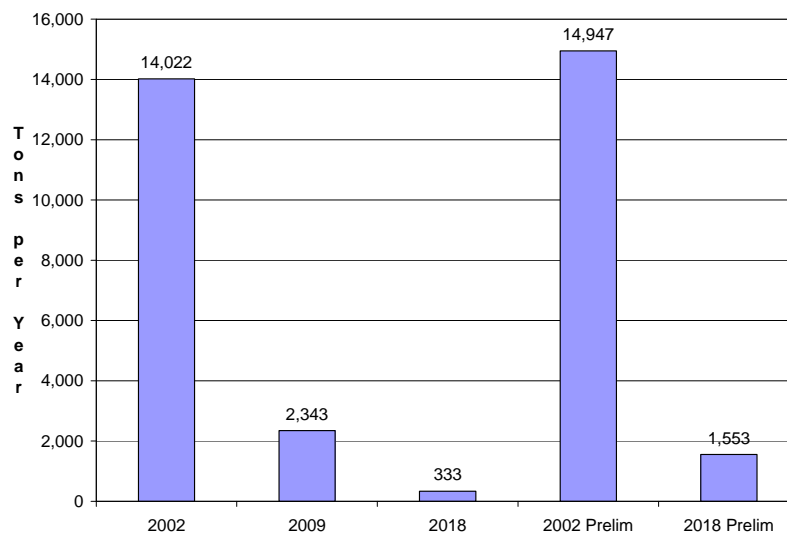




**Figure 2.3-10 Total Aircraft, Locomotive, and CMV SO<sub>2</sub> Emissions (Base F)**

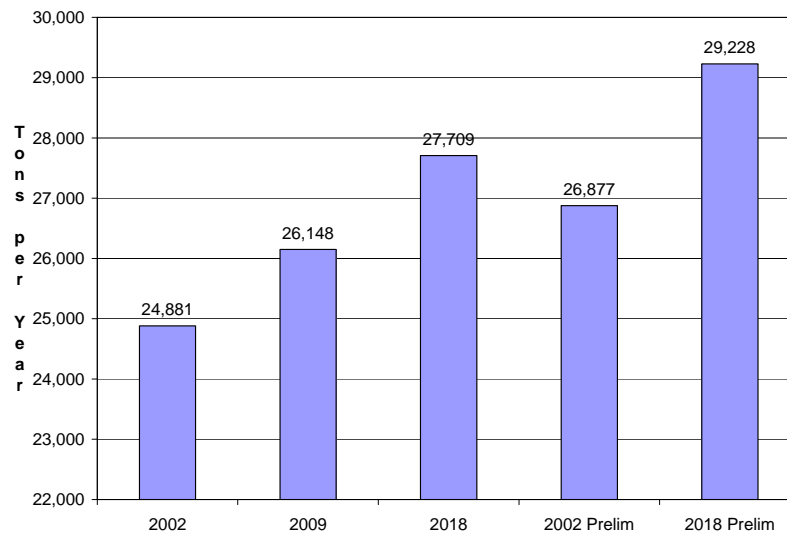


**Figure 2.3-11 Locomotive SO<sub>2</sub> Emissions (Base F)**

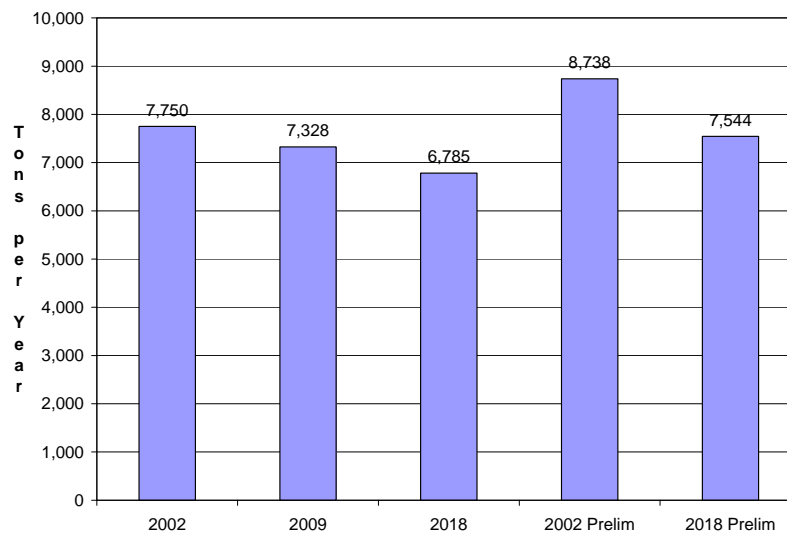




**Figure 2.3-12 Total Aircraft, Locomotive, and CMV VOC Emissions (Base F)**



**Figure 2.3-13 Locomotive VOC Emissions (Base F)**





**Base G Revisions:**

Table 2.3-18 shows the Base G 2002 base year emissions for each State in the VISTAS region for aircraft, locomotives and CMV. Although some of these data are updated relative to those used as the basis of the Base F emissions forecasts, the methodology used to develop 2009 and 2018 emissions forecasts for aircraft, locomotives, and CMV for Base G is identical to that used for Base F (as documented above). The only exceptions are as follows:

- (a) As indicated in the discussion of the Base F forecasts, the CAIR (growth rate) matching criteria were overridden for any record for which States provided local growth data. For Base F, only North Carolina provided such data. However, for Base G, Kentucky regulators provided growth data for aircraft emissions associated with Cincinnati/Northern Kentucky International Airport (located in Boone County, Kentucky). These data were applied to all pollutants and all aircraft types (i.e., military aircraft (SCC 2275001000), commercial aircraft (SCC 2275020000), general aviation aircraft (SCC 2275050000), and air taxi aircraft (SCC 2275060000)). Emissions forecasts for all aircraft operations in counties other than Boone continued to utilize the growth factors developed according to the CAIR matching criteria. Table 2.3-19 presents the locally generated growth factors applied in Kentucky. It should be recognized that although the locally provided growth factors presented in the table are significantly greater than those that would apply under the CAIR matching criteria, this is to be expected as local regulators noted a very significant decline in activity at the Cincinnati/Northern Kentucky International Airport in 2002 (relative to activity in preceding years). Moreover, this downward spike seems to have been alleviated since 2002, so that the provided growth factors represent not only “routine” growth expected between 2002 and the two forecast years, but growth required to offset the temporary decline observed in 2002.



**Table 2.3-18 Base G 2002 Aircraft, Locomotive, and Non-Recreational Marine Emissions  
(annual tons)**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 5,595          | 185             | 238              | 99                | 18              | 276           |
|                                | FL           | 25,431         | 8,891           | 2,424            | 2,375             | 800             | 3,658         |
|                                | GA           | 6,620          | 5,372           | 1,475            | 1,446             | 451             | 443           |
|                                | KY           | 5,577          | 925             | 251              | 246               | 88              | 397           |
|                                | MS           | 1,593          | 140             | 44               | 43                | 13              | 96            |
|                                | NC           | 6,088          | 1,548           | 419              | 411               | 148             | 613           |
|                                | SC           | 6,505          | 515             | 409              | 401               | 88              | 863           |
|                                | TN           | 7,251          | 2,766           | 734              | 719               | 235             | 943           |
|                                | VA           | 11,873         | 3,885           | 2,010            | 1,970             | 272             | 2,825         |
|                                | WV           | 1,178          | 78              | 25               | 24                | 8               | 66            |
|                                | <b>Total</b> | <b>77,712</b>  | <b>24,305</b>   | <b>8,029</b>     | <b>7,734</b>      | <b>2,121</b>    | <b>10,179</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,196          | 9,218           | 917              | 844               | 3,337           | 737           |
|                                | FL           | 5,888          | 44,817          | 1,936            | 1,781             | 6,683           | 1,409         |
|                                | GA           | 1,038          | 7,875           | 334              | 307               | 1,173           | 246           |
|                                | KY           | 6,607          | 50,267          | 2,246            | 2,066             | 9,608           | 1,569         |
|                                | MS           | 5,688          | 43,233          | 1,903            | 1,751             | 7,719           | 1,351         |
|                                | NC           | 599            | 4,547           | 193              | 178               | 690             | 142           |
|                                | SC           | 1,067          | 8,100           | 343              | 316               | 1,205           | 253           |
|                                | TN           | 3,624          | 27,555          | 1,217            | 1,120             | 4,974           | 860           |
|                                | VA           | 972            | 2,775           | 334              | 307               | 359             | 483           |
|                                | WV           | 1,528          | 11,586          | 487              | 448               | 525             | 362           |
|                                | <b>Total</b> | <b>28,207</b>  | <b>209,972</b>  | <b>9,911</b>     | <b>9,118</b>      | <b>36,275</b>   | <b>7,413</b>  |
| Military Marine<br>(2283)      | VA           | 110            | 313             | 25               | 23                | 27              | 48            |
|                                | <b>Total</b> | <b>110</b>     | <b>313</b>      | <b>25</b>        | <b>23</b>         | <b>27</b>       | <b>48</b>     |
| Locomotives<br>(2285)          | AL           | 3,518          | 26,623          | 592              | 533               | 1,446           | 1,365         |
|                                | FL           | 1,006          | 9,969           | 247              | 222               | 605             | 404           |
|                                | GA           | 2,654          | 26,733          | 664              | 598               | 1,622           | 1,059         |
|                                | KY           | 2,166          | 21,811          | 542              | 488               | 1,321           | 867           |
|                                | MS           | 2,302          | 23,267          | 578              | 520               | 1,429           | 899           |
|                                | NC           | 1,638          | 16,502          | 410              | 369               | 1,001           | 654           |
|                                | SC           | 1,160          | 11,690          | 291              | 261               | 710             | 462           |
|                                | TN           | 2,626          | 25,627          | 633              | 570               | 1,439           | 1,041         |
|                                | VA           | 1,186          | 11,882          | 1,529            | 1,375             | 3,641           | 492           |
|                                | WV           | 1,311          | 13,224          | 329              | 296               | 808             | 517           |
|                                | <b>Total</b> | <b>19,568</b>  | <b>187,328</b>  | <b>5,815</b>     | <b>5,232</b>      | <b>14,022</b>   | <b>7,761</b>  |
| <b>Grand Total</b>             |              | <b>125,597</b> | <b>421,918</b>  | <b>23,780</b>    | <b>22,107</b>     | <b>52,444</b>   | <b>25,401</b> |



**Table 2.3-19 Locally Generated Growth Factors for Kentucky**

| FIP   | 2009 Factor | 2018 Factor |
|-------|-------------|-------------|
| 21015 | 1.31        | 1.81        |

**Note:**

Growth factor = Year Emissions/2002 Emissions.

Under CAIR approach, 2009 = 0.99 to 1.17.

Under CAIR approach, 2018 = 0.97 to 1.40.

- (b) Because of the additional emissions records added in Alabama, as discussed in the Base G 2002 base year inventory section of this report, the total number of emissions records in the Base G 2009 and 2018 forecasts increased to 23,042 (as compared to 22,838 for Base F). The 23,042 data records for aircraft, locomotives, and CMV were assigned growth factors in accordance with the following breakdown:

72 records matched State-provided growth factors,  
 4,287 records matched using the CAIR-Primary criterion,  
 240 records matched using the CAIR-Secondary criterion,  
 7,511 records matched using the CAIR-Tertiary criterion,  
 720 records matched using the No T4-Primary criterion,  
 3,858 records matched using the No T4-Secondary criterion, and  
 6,354 records matched using the No T4-Tertiary criterion.

Tables 2.3-20 and 2.3-21 present a summary of the resulting Base G 2009 and 2018 inventories, while Tables 2.3-22 and 2.3-23 present the associated change in emissions for each forecast inventory relative to the Base G 2002 base year VISTAS. As was the case with Base F, the larger reduction in CMV SO<sub>2</sub> emissions in 2009 and 2018 (relative to 2002) for Virginia and West Virginia is notable relative to the other VISTAS States, but is attributable to a high diesel contribution to total CMV SO<sub>2</sub> in the 2002 inventories for these two States.

Figures 2.3-14 through 2.3-25 graphically depict the relationships between the various inventories, as revised through Base G. There are two figures for each pollutant, the first of which presents a comparison of total VISTAS regional emission estimates for aircraft, locomotives, and CMV, and the second of which presents total VISTAS region emission estimates for locomotives only. This two figure approach is intended to provide a more robust illustration of the differences between the various inventories, as some of the differences are less distinct when viewed through overall aggregate emissions totals. All of the figures include the following emissions estimates:



- The Base G 2002 base year VISTAS emissions inventory (labeled as “2002”),
- The pre-Base F 2002 base year VISTAS emissions inventory (labeled as “2002 Prelim”),
- The Base G 2009 VISTAS emissions inventory developed using growth rates derived from 1996 and 2020 EPA CAIR data (labeled as “2009”),
- The Base G 2018 VISTAS emissions inventory developed using growth rates derived from 1996 and 2020 EPA CAIR data (labeled as “2018”), and
- The pre-Base F 2018 VISTAS emissions inventory estimates developed using growth rates derived from 1996, 2010, 2015, and 2020 EPA CAIR data (labeled as “2018 Prelim”).

All 12 figures generally illustrate a reduction in emissions estimates between the pre-Base F 2002 emission estimates published in February 2004 and the Base G 2002 base year emission estimates. This reduction generally results from emission updates reflected in the Base F State CERR submittals, although the major differences in aggregate PM emission estimates are driven to a greater extent by modifications in the methodology used to estimate aircraft PM in the Base F revisions to the 2002 Base F base year inventory (as documented under the base year inventory section of this report).



**Table 2.3-20 Base G 2009 Aircraft, Locomotive, and Non-Recreational Marine Emissions  
(annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 6,265          | 213             | 292              | 116               | 21              | 309           |
|                                | FL           | 29,258         | 10,316          | 2,812            | 2,756             | 928             | 4,235         |
|                                | GA           | 7,635          | 6,233           | 1,712            | 1,678             | 523             | 512           |
|                                | KY           | 6,959          | 1,135           | 307              | 301               | 108             | 487           |
|                                | MS           | 1,765          | 162             | 51               | 50                | 16              | 108           |
|                                | NC           | 6,991          | 1,795           | 486              | 477               | 171             | 709           |
|                                | SC           | 7,372          | 559             | 446              | 437               | 98              | 975           |
|                                | TN           | 8,020          | 3,096           | 824              | 807               | 268             | 1,050         |
|                                | VA           | 13,141         | 4,244           | 2,124            | 2,082             | 306             | 3,153         |
|                                | WV           | 1,312          | 91              | 28               | 28                | 9               | 74            |
|                                | <b>Total</b> | <b>88,716</b>  | <b>27,844</b>   | <b>9,083</b>     | <b>8,732</b>      | <b>2,447</b>    | <b>11,612</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,280          | 8,888           | 872              | 802               | 2,753           | 768           |
|                                | FL           | 6,236          | 43,198          | 1,838            | 1,691             | 5,864           | 1,467         |
|                                | GA           | 1,097          | 7,599           | 317              | 291               | 974             | 256           |
|                                | KY           | 7,087          | 48,039          | 2,158            | 1,985             | 8,350           | 1,649         |
|                                | MS           | 6,074          | 41,437          | 1,821            | 1,676             | 6,587           | 1,415         |
|                                | NC           | 634            | 4,386           | 184              | 169               | 584             | 148           |
|                                | SC           | 1,133          | 7,796           | 326              | 300               | 1,012           | 264           |
|                                | TN           | 3,887          | 26,333          | 1,168            | 1,074             | 4,512           | 904           |
|                                | VA           | 1,042          | 2,662           | 312              | 286               | 61              | 506           |
|                                | WV           | 1,638          | 11,073          | 455              | 419               | 89              | 381           |
|                                | <b>Total</b> | <b>30,108</b>  | <b>201,412</b>  | <b>9,450</b>     | <b>8,693</b>      | <b>30,786</b>   | <b>7,759</b>  |
| Military Marine<br>(2283)      | VA           | 118            | 299             | 23               | 21                | 5               | 50            |
|                                | <b>Total</b> | <b>118</b>     | <b>299</b>      | <b>23</b>        | <b>21</b>         | <b>5</b>        | <b>50</b>     |
| Locomotives<br>(2285)          | AL           | 3,677          | 23,783          | 452              | 406               | 242             | 1,289         |
|                                | FL           | 1,052          | 8,905           | 189              | 170               | 101             | 382           |
|                                | GA           | 2,769          | 24,398          | 507              | 456               | 271             | 1,003         |
|                                | KY           | 2,264          | 19,597          | 415              | 374               | 221             | 819           |
|                                | MS           | 2,406          | 20,785          | 441              | 397               | 239             | 849           |
|                                | NC           | 1,690          | 14,662          | 311              | 279               | 165             | 613           |
|                                | SC           | 1,213          | 10,443          | 222              | 200               | 119             | 437           |
|                                | TN           | 2,745          | 23,924          | 483              | 435               | 240             | 984           |
|                                | VA           | 1,236          | 11,134          | 1,167            | 1,050             | 608             | 467           |
|                                | WV           | 1,369          | 12,177          | 251              | 226               | 135             | 489           |
|                                | <b>Total</b> | <b>20,420</b>  | <b>169,808</b>  | <b>4,437</b>     | <b>3,993</b>      | <b>2,341</b>    | <b>7,333</b>  |
| <b>Grand Total</b>             |              | <b>139,362</b> | <b>399,364</b>  | <b>22,994</b>    | <b>21,440</b>     | <b>35,578</b>   | <b>26,754</b> |



**Table 2.3-21 Base G 2018 Aircraft, Locomotive, and Non-Recreational Marine Emissions  
(annual tons) -- Based on Growth Using 1996 and 2020 EPA Inventories**

| Source                         | State        | CO             | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC           |
|--------------------------------|--------------|----------------|-----------------|------------------|-------------------|-----------------|---------------|
| Aircraft<br>(2275)             | AL           | 7,126          | 249             | 361              | 139               | 24              | 352           |
|                                | FL           | 34,178         | 12,147          | 3,312            | 3,246             | 1,093           | 4,976         |
|                                | GA           | 8,939          | 7,340           | 2,016            | 1,976             | 616             | 601           |
|                                | KY           | 9,078          | 1,446           | 391              | 383               | 138             | 623           |
|                                | MS           | 1,986          | 190             | 60               | 58                | 18              | 122           |
|                                | NC           | 8,150          | 2,114           | 572              | 561               | 202             | 831           |
|                                | SC           | 8,487          | 616             | 493              | 484               | 112             | 1,119         |
|                                | TN           | 9,009          | 3,519           | 939              | 921               | 309             | 1,187         |
|                                | VA           | 14,770         | 4,706           | 2,271            | 2,226             | 349             | 3,574         |
|                                | WV           | 1,484          | 106             | 33               | 33                | 10              | 85            |
|                                | <b>Total</b> | <b>103,206</b> | <b>32,435</b>   | <b>10,450</b>    | <b>10,027</b>     | <b>2,871</b>    | <b>13,472</b> |
| Commercial<br>Marine<br>(2280) | AL           | 1,388          | 8,464           | 880              | 809               | 2,715           | 809           |
|                                | FL           | 6,684          | 41,117          | 1,853            | 1,705             | 6,248           | 1,543         |
|                                | GA           | 1,174          | 7,246           | 319              | 293               | 976             | 269           |
|                                | KY           | 7,703          | 45,174          | 2,199            | 2,023             | 8,383           | 1,752         |
|                                | MS           | 6,571          | 39,129          | 1,850            | 1,702             | 6,556           | 1,498         |
|                                | NC           | 678            | 4,179           | 185              | 170               | 596             | 155           |
|                                | SC           | 1,217          | 7,406           | 329              | 303               | 1,027           | 278           |
|                                | TN           | 4,225          | 24,763          | 1,190            | 1,095             | 4,808           | 960           |
|                                | VA           | 1,133          | 2,517           | 314              | 289               | 9               | 537           |
|                                | WV           | 1,781          | 10,412          | 459              | 422               | 13              | 404           |
|                                | <b>Total</b> | <b>32,554</b>  | <b>190,407</b>  | <b>9,578</b>     | <b>8,811</b>      | <b>31,330</b>   | <b>8,205</b>  |
| Military Marine<br>(2283)      | VA           | 128            | 282             | 23               | 21                | 1               | 53            |
|                                | <b>Total</b> | <b>128</b>     | <b>282</b>      | <b>23</b>        | <b>21</b>         | <b>1</b>        | <b>53</b>     |
| Locomotives<br>(2285)          | AL           | 3,881          | 20,131          | 381              | 343               | 34              | 1,192         |
|                                | FL           | 1,110          | 7,538           | 159              | 143               | 14              | 353           |
|                                | GA           | 2,917          | 21,395          | 427              | 385               | 38              | 932           |
|                                | KY           | 2,389          | 16,751          | 352              | 317               | 31              | 757           |
|                                | MS           | 2,540          | 17,594          | 372              | 335               | 34              | 785           |
|                                | NC           | 1,782          | 12,539          | 263              | 237               | 23              | 570           |
|                                | SC           | 1,280          | 8,840           | 187              | 168               | 17              | 404           |
|                                | TN           | 2,897          | 21,735          | 407              | 367               | 34              | 910           |
|                                | VA           | 1,300          | 10,173          | 983              | 885               | 86              | 436           |
|                                | WV           | 1,444          | 10,831          | 212              | 190               | 19              | 453           |
|                                | <b>Total</b> | <b>21,539</b>  | <b>147,527</b>  | <b>3,743</b>     | <b>3,368</b>      | <b>332</b>      | <b>6,792</b>  |
| <b>Grand Total</b>             |              | <b>157,427</b> | <b>370,651</b>  | <b>23,794</b>    | <b>22,227</b>     | <b>34,534</b>   | <b>28,522</b> |



**Table 2.3-22 Change in Emissions between 2009 Base G and 2002 Base F Inventories  
(Based on Growth Using 1996 and 2020 EPA Inventories)**

| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC         |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|-------------|
| Aircraft<br>(2275)             | AL           | +12%        | +15%            | +23%             | +18%              | +16%            | +12%        |
|                                | FL           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | GA           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | KY           | +25%        | +23%            | +23%             | +23%              | +23%            | +23%        |
|                                | MS           | +11%        | +16%            | +15%             | +15%              | +16%            | +12%        |
|                                | NC           | +15%        | +16%            | +16%             | +16%              | +16%            | +16%        |
|                                | SC           | +13%        | +9%             | +9%              | +9%               | +12%            | +13%        |
|                                | TN           | +11%        | +12%            | +12%             | +12%              | +14%            | +11%        |
|                                | VA           | +11%        | +9%             | +6%              | +6%               | +12%            | +12%        |
|                                | WV           | +11%        | +16%            | +15%             | +15%              | +16%            | +12%        |
|                                | <b>Total</b> | <b>+14%</b> | <b>+15%</b>     | <b>+13%</b>      | <b>+13%</b>       | <b>+15%</b>     | <b>+14%</b> |
| Commercial<br>Marine<br>(2280) | AL           | +7%         | -4%             | -5%              | -5%               | -18%            | +4%         |
|                                | FL           | +6%         | -4%             | -5%              | -5%               | -12%            | +4%         |
|                                | GA           | +6%         | -3%             | -5%              | -5%               | -17%            | +4%         |
|                                | KY           | +7%         | -4%             | -4%              | -4%               | -13%            | +5%         |
|                                | MS           | +7%         | -4%             | -4%              | -4%               | -15%            | +5%         |
|                                | NC           | +6%         | -4%             | -5%              | -5%               | -15%            | +4%         |
|                                | SC           | +6%         | -4%             | -5%              | -5%               | -16%            | +4%         |
|                                | TN           | +7%         | -4%             | -4%              | -4%               | -9%             | +5%         |
|                                | VA           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | WV           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | <b>Total</b> | <b>+7%</b>  | <b>-4%</b>      | <b>-5%</b>       | <b>-5%</b>        | <b>-15%</b>     | <b>+5%</b>  |
| Military Marine<br>(2283)      | VA           | +7%         | -4%             | -7%              | -7%               | -83%            | +5%         |
|                                | <b>Total</b> | <b>+7%</b>  | <b>-4%</b>      | <b>-7%</b>       | <b>-7%</b>        | <b>-83%</b>     | <b>+5%</b>  |
| Locomotives<br>(2285)          | AL           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | FL           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | GA           | +4%         | -9%             | -24%             | -24%              | -83%            | -5%         |
|                                | KY           | +5%         | -10%            | -23%             | -23%              | -83%            | -6%         |
|                                | MS           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | NC           | +3%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | SC           | +5%         | -11%            | -24%             | -24%              | -83%            | -6%         |
|                                | TN           | +5%         | -7%             | -24%             | -24%              | -83%            | -6%         |
|                                | VA           | +4%         | -6%             | -24%             | -24%              | -83%            | -5%         |
|                                | WV           | +4%         | -8%             | -24%             | -24%              | -83%            | -5%         |
|                                | <b>Total</b> | <b>+4%</b>  | <b>-9%</b>      | <b>-24%</b>      | <b>-24%</b>       | <b>-83%</b>     | <b>-6%</b>  |
| <b>Grand Total</b>             |              | <b>+11%</b> | <b>-5%</b>      | <b>-3%</b>       | <b>-3%</b>        | <b>-32%</b>     | <b>+5%</b>  |

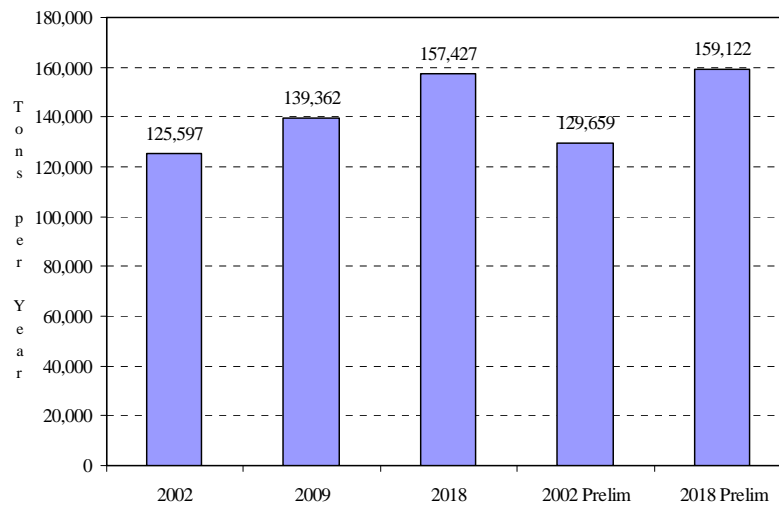


**Table 2.3-23 Change in Emissions between 2018 Base G and 2002 Base F Inventories  
(Based on Growth Using 1996 and 2020 EPA Inventories)**

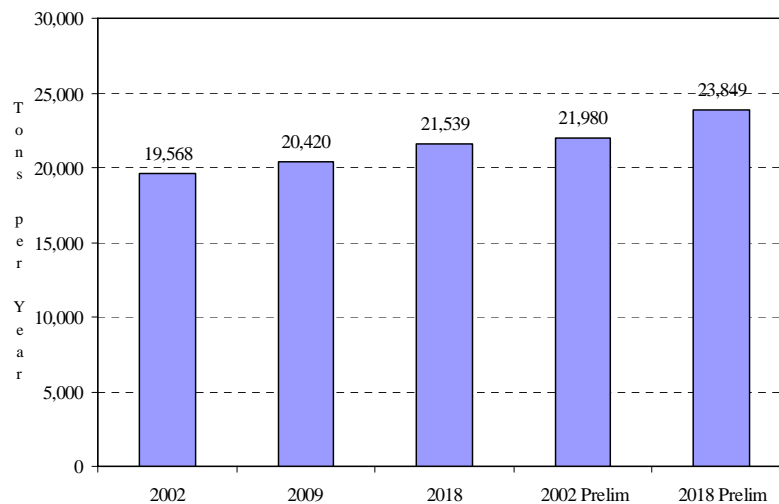
| Source                         | State        | CO          | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub> | VOC         |
|--------------------------------|--------------|-------------|-----------------|------------------|-------------------|-----------------|-------------|
| Aircraft<br>(2275)             | AL           | +27%        | +35%            | +52%             | +41%              | +36%            | +28%        |
|                                | FL           | +34%        | +37%            | +37%             | +37%              | +37%            | +36%        |
|                                | GA           | +35%        | +37%            | +37%             | +37%              | +37%            | +36%        |
|                                | KY           | +63%        | +56%            | +56%             | +56%              | +56%            | +57%        |
|                                | MS           | +25%        | +36%            | +35%             | +35%              | +36%            | +27%        |
|                                | NC           | +34%        | +37%            | +36%             | +36%              | +37%            | +36%        |
|                                | SC           | +30%        | +20%            | +21%             | +21%              | +27%            | +30%        |
|                                | TN           | +24%        | +27%            | +28%             | +28%              | +31%            | +26%        |
|                                | VA           | +24%        | +21%            | +13%             | +13%              | +28%            | +27%        |
|                                | WV           | +26%        | +36%            | +35%             | +35%              | +36%            | +28%        |
|                                | <b>Total</b> | <b>+33%</b> | <b>+33%</b>     | <b>+30%</b>      | <b>+30%</b>       | <b>+35%</b>     | <b>+32%</b> |
| Commercial<br>Marine<br>(2280) | AL           | +16%        | -8%             | -4%              | -4%               | -19%            | +10%        |
|                                | FL           | +14%        | -8%             | -4%              | -4%               | -7%             | +9%         |
|                                | GA           | +13%        | -8%             | -5%              | -5%               | -17%            | +9%         |
|                                | KY           | +17%        | -10%            | -2%              | -2%               | -13%            | +12%        |
|                                | MS           | +16%        | -9%             | -3%              | -3%               | -15%            | +11%        |
|                                | NC           | +13%        | -8%             | -4%              | -4%               | -14%            | +9%         |
|                                | SC           | +14%        | -9%             | -4%              | -4%               | -15%            | +10%        |
|                                | TN           | +17%        | -10%            | -2%              | -2%               | -3%             | +12%        |
|                                | VA           | +17%        | -9%             | -6%              | -6%               | -98%            | +11%        |
|                                | WV           | +17%        | -10%            | -6%              | -6%               | -98%            | +12%        |
|                                | <b>Total</b> | <b>+15%</b> | <b>-9%</b>      | <b>-3%</b>       | <b>-3%</b>        | <b>-14%</b>     | <b>+11%</b> |
| Military Marine<br>(2283)      | VA           | +17%        | -10%            | -6%              | -6%               | -98%            | +12%        |
|                                | <b>Total</b> | <b>+17%</b> | <b>-10%</b>     | <b>-6%</b>       | <b>-6%</b>        | <b>-98%</b>     | <b>+12%</b> |
| Locomotives<br>(2285)          | AL           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | FL           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | GA           | +10%        | -20%            | -36%             | -36%              | -98%            | -12%        |
|                                | KY           | +10%        | -23%            | -35%             | -35%              | -98%            | -13%        |
|                                | MS           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | NC           | +9%         | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | SC           | +10%        | -24%            | -36%             | -36%              | -98%            | -13%        |
|                                | TN           | +10%        | -15%            | -36%             | -36%              | -98%            | -13%        |
|                                | VA           | +10%        | -14%            | -36%             | -36%              | -98%            | -11%        |
|                                | WV           | +10%        | -18%            | -36%             | -36%              | -98%            | -12%        |
|                                | <b>Total</b> | <b>+10%</b> | <b>-21%</b>     | <b>-36%</b>      | <b>-36%</b>       | <b>-98%</b>     | <b>-12%</b> |
| <b>Grand Total</b>             |              | <b>+25%</b> | <b>-12%</b>     | <b>+0%</b>       | <b>+1%</b>        | <b>-34%</b>     | <b>+12%</b> |



**Figure 2.3-14 Total Aircraft, Locomotive, and CMV CO Emissions (Base G)**

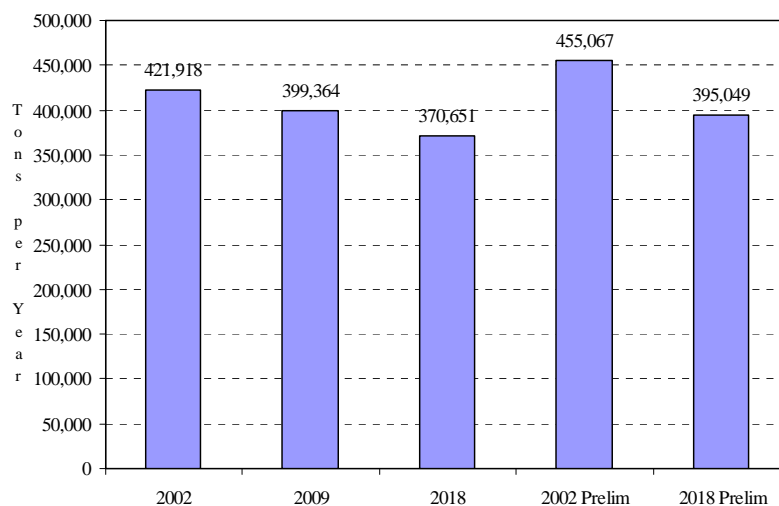


**Figure 2.3-15 Locomotive CO Emissions (Base G)**

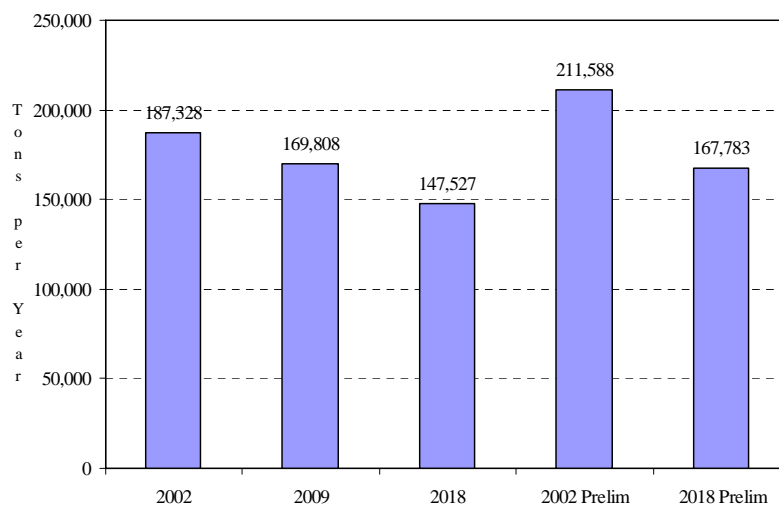




**Figure 2.3-16 Total Aircraft, Locomotive, and CMV NO<sub>x</sub> Emissions (Base G)**

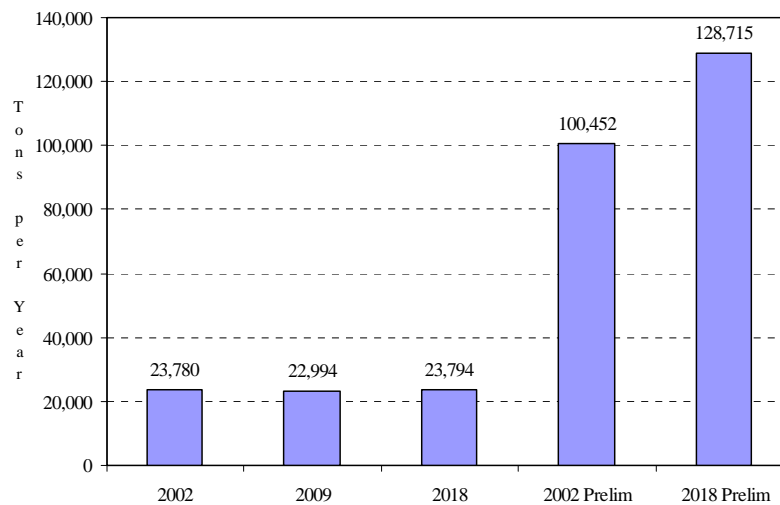


**Figure 2.3-17 Locomotive NO<sub>x</sub> Emissions (Base G)**

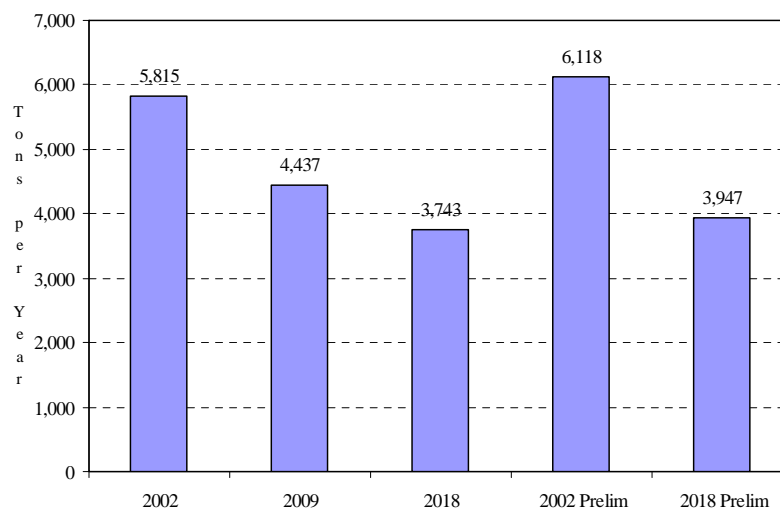




**Figure 2.3-18 Total Aircraft, Locomotive, and CMV PM<sub>10</sub> Emissions (Base G)**

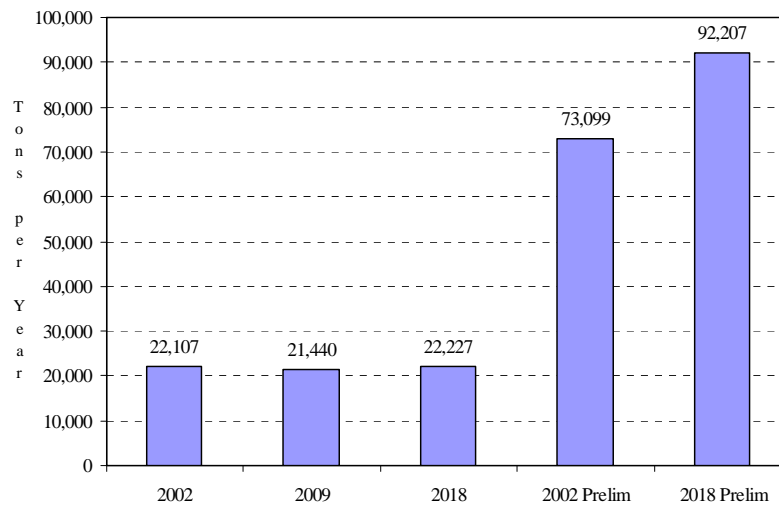


**Figure 2.3-19 Locomotive PM<sub>10</sub> Emissions (Base G)**

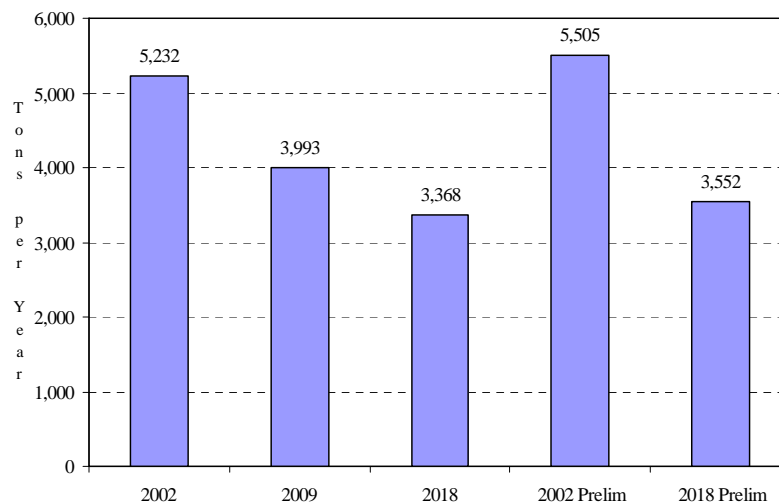




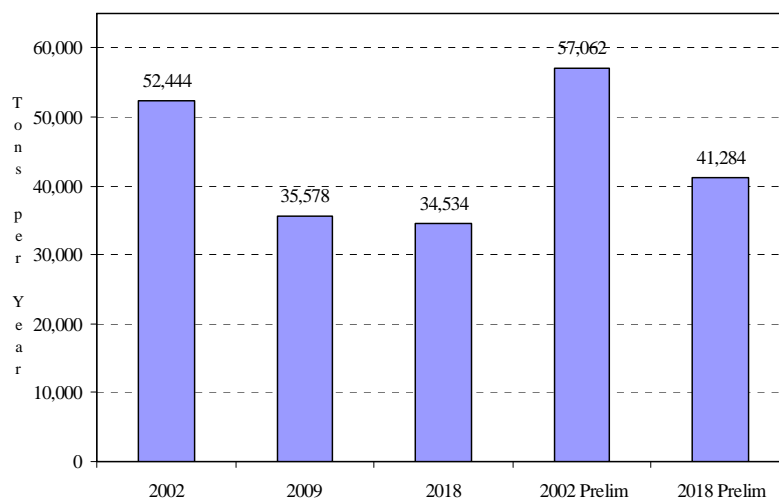
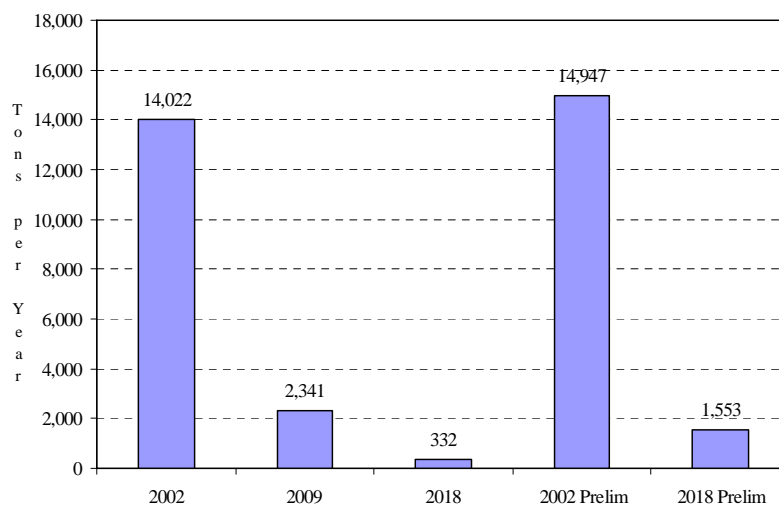
**Figure 2.3-20 Total Aircraft, Locomotive, and CMV PM<sub>2.5</sub> Emissions (Base G)**



**Figure 2.3-21 Locomotive PM<sub>2.5</sub> Emissions (Base G)**

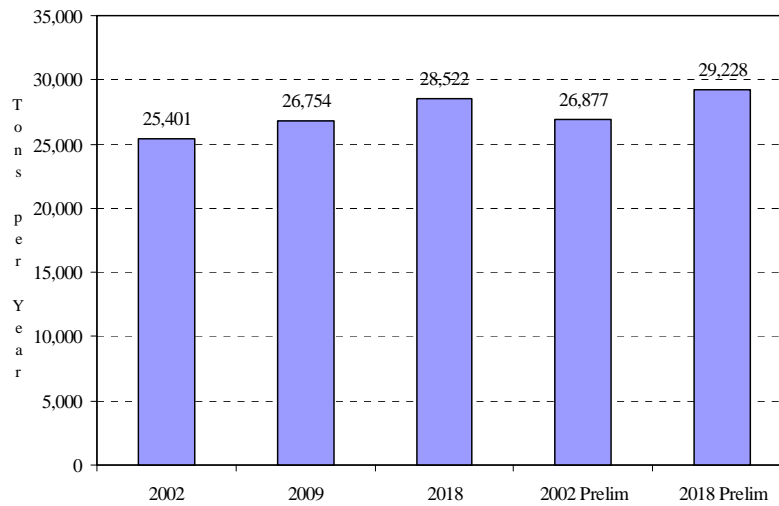




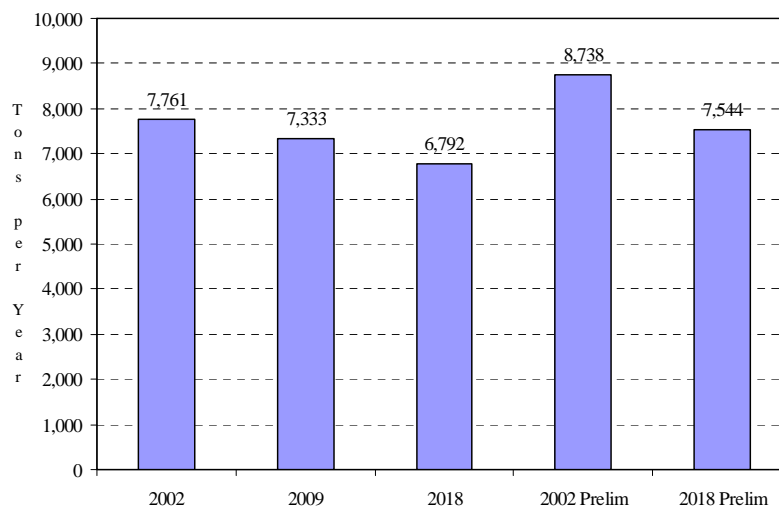
**Figure 2.3-22 Total Aircraft, Locomotive, and CMV SO<sub>2</sub> Emissions (Base G)****Figure 2.3-23 Locomotive SO<sub>2</sub> Emissions (Base G)**



**Figure 2.3-24 Total Aircraft, Locomotive, and CMV VOC Emissions (Base G)**



**Figure 2.3-25 Locomotive VOC Emissions (Base G)**





### **2.3.4.3 Emissions from NONROAD Model Sources in Illinois, Indiana, and Ohio**

Base G projection inventories for 2009 and 2018 for NONROAD model sources in the states of Illinois, Indiana, and Ohio were produced using a methodology identical to that employed to develop a Base G 2002 base year inventory for the same states (as documented earlier in this report). This method consists of the extraction of a complete set of county-level input data applicable to each of the three states (in each of the two projection years) from the latest version of the EPA's NMIM model. This includes appropriate consideration of all non-default NMIM input files generated by the Midwest Regional Planning Organization as documented earlier in the discussion of the Base G 2002 base year inventory. These input data were then assembled into appropriate input files for the Final NONROAD2005 model and emission estimates were produced using the same procedure employed for the VISTAS region.

Changes noted between the base year (2002) and forecast year (2009 and 2018) input data extracted from NMIM include differences in gasoline vapor pressure, gasoline sulfur content, and diesel sulfur content in most counties. All temperature data (minimum, maximum, and average daily temperatures) was constant across years.

As described in the discussion of the Base G 2002 base year inventory, counties in the three states were grouped for modeling purposes using a temperature aggregation scheme that allowed for county-specific temperature variations of no more than 2 °F from group average temperatures (for all temperature inputs). The same grouping scheme was applied to projection year modeling, so that Illinois emissions were modeled using 12 county groups, Indiana emissions were modeled using 9 county groups, and Ohio emissions were modeled using 10 county groups. Thus, 31 iterations of NONROAD2002 were required per season per projection year, as compared to the 53 iterations per season per projection year required for the VISTAS region.

As was also described in the discussion of the Base G 2002 base year inventory, several non-default equipment population, growth, activity, seasonal distribution, and county allocation files are assigned by NMIM model inputs for these counties. As was the case for the base year inventory development, these same non-default assignments were retained for both projection inventories.

### **2.3.4.4 Differences between 2009/2018**

Methodologically, there was no difference in the way that 2009 and 2018 emissions were calculated for non-road mobile sources. The actual value of the growth factors were different for each type of mobile source considered, but the calculation methods were identical.



### 2.3.5 *Quality Assurance steps*

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, to ensure that a full and complete inventory was developed for VISTAS, and to make sure that projection calculations were working correctly. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on mobile source components of the 2009 and revised 2018 projection inventories:

1. All final files (NONROAD only) were run through EPA's Format and Content checking software. Input data files for MOBILE and VMT growth estimates were reviewed by the corresponding SIWG and by the VISTAS Emission Inventory Technical Advisor.
2. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources (NONROAD only).
3. Tier comparisons (by pollutant) were developed between the 2002 base year inventory and the 2009 and 2018 projection inventories (NONROAD only). Total VISTAS level summaries by pollutant were developed for these sources to compare Base F and Base G emission levels.
4. Data product summaries were provided to both the VISTAS Emission Inventory Technical Advisor and to the SIWG representatives for review and comment. Changes based on these comments were implemented in the files.
5. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from 1.0 to 2.0. A minor change would cause a version number to go from 1.0 to 1.1. Minor changes resulting from largely editorial changes would result in a change from 1.00 to 1.01.

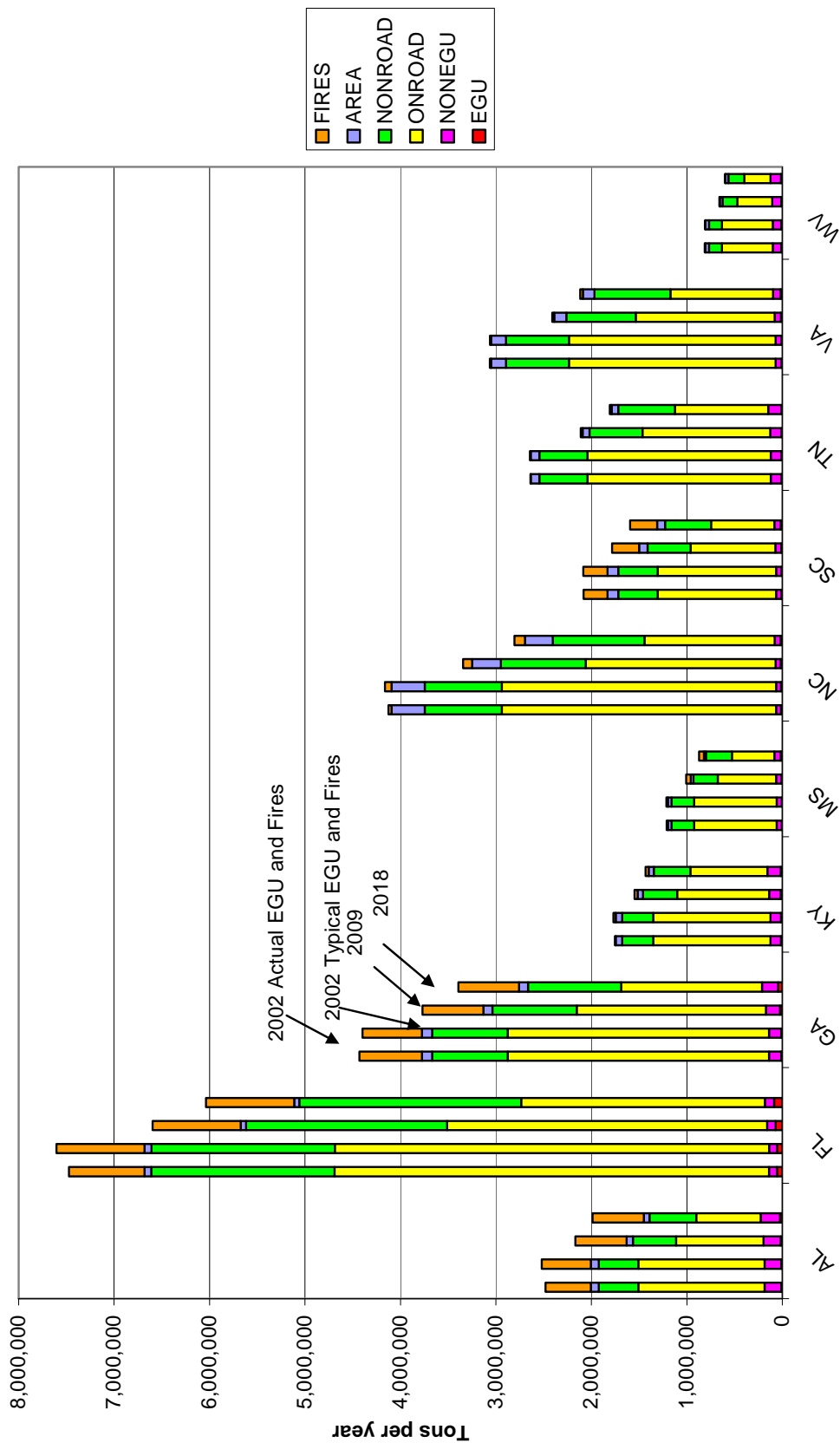


## **Appendix A:**

### **STATE EMISSION TOTALS BY POLLUTANT AND SECTOR**



## Annual CO Emissions by Source Sector



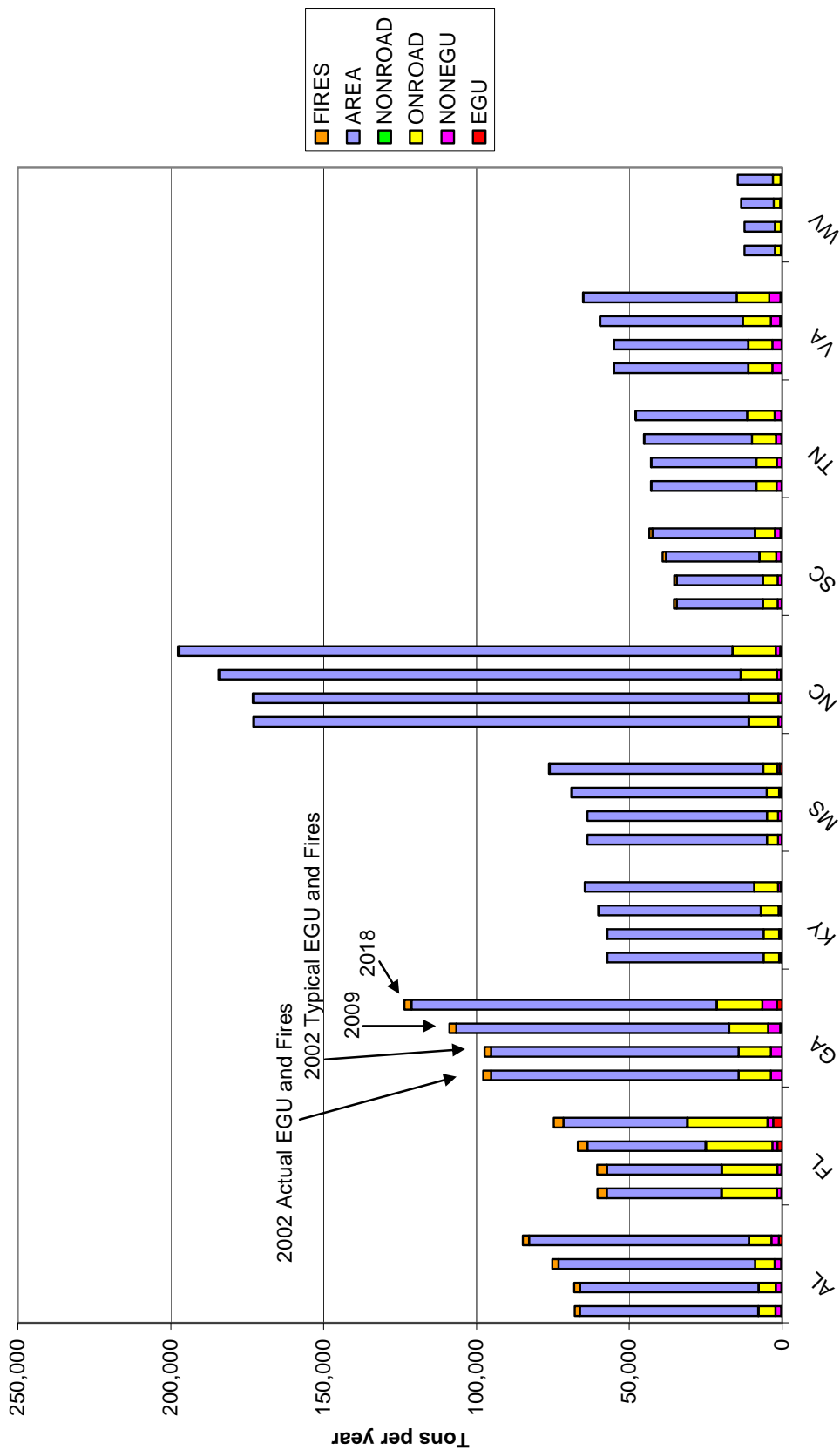


## Annual CO Emissions by Source Sector

| Name | EGU    | NONEGU  | ONROAD    | NONROAD   | AREA    | FIRES   | YEAR         |
|------|--------|---------|-----------|-----------|---------|---------|--------------|
| AL   | 11,279 | 174,271 | 1,321,528 | 414,385   | 83,958  | 474,959 | 2002 Actual  |
|      | 11,460 | 174,260 | 1,321,528 | 414,385   | 83,958  | 514,120 | 2002 Typical |
|      | 14,986 | 180,369 | 915,647   | 454,686   | 66,654  | 534,873 | 2009         |
|      | 24,342 | 201,663 | 676,210   | 488,924   | 59,626  | 535,658 | 2018         |
| FL   | 57,113 | 81,933  | 4,550,447 | 1,920,729 | 71,079  | 790,620 | 2002 Actual  |
|      | 55,899 | 81,928  | 4,550,447 | 1,920,729 | 71,079  | 923,310 | 2002 Typical |
|      | 71,072 | 87,661  | 3,352,509 | 2,104,920 | 57,011  | 923,310 | 2009         |
|      | 85,495 | 97,438  | 2,554,160 | 2,323,327 | 53,903  | 923,310 | 2018         |
| GA   | 9,712  | 130,850 | 2,735,968 | 791,158   | 108,083 | 654,411 | 2002 Actual  |
|      | 9,650  | 130,850 | 2,735,968 | 791,158   | 108,083 | 620,342 | 2002 Typical |
|      | 23,721 | 147,427 | 1,983,803 | 882,970   | 94,130  | 637,177 | 2009         |
|      | 44,269 | 167,904 | 1,476,981 | 973,872   | 93,827  | 637,177 | 2018         |
| KY   | 12,619 | 109,936 | 1,230,148 | 325,993   | 66,752  | 8,703   | 2002 Actual  |
|      | 12,607 | 109,936 | 1,230,148 | 325,993   | 66,752  | 24,900  | 2002 Typical |
|      | 15,812 | 122,024 | 963,762   | 357,800   | 57,887  | 31,810  | 2009         |
|      | 17,144 | 139,437 | 807,536   | 381,215   | 54,865  | 33,296  | 2018         |
| MS   | 5,303  | 54,568  | 864,290   | 236,752   | 37,905  | 13,209  | 2002 Actual  |
|      | 5,219  | 54,568  | 864,290   | 236,752   | 37,905  | 14,353  | 2002 Typical |
|      | 7,116  | 57,749  | 609,972   | 257,453   | 27,184  | 48,160  | 2009         |
|      | 17,348 | 65,884  | 445,493   | 270,726   | 22,099  | 50,037  | 2018         |
| NC   | 13,885 | 50,576  | 2,873,992 | 808,231   | 345,315 | 34,515  | 2002 Actual  |
|      | 14,074 | 50,576  | 2,873,992 | 808,231   | 345,315 | 71,970  | 2002 Typical |
|      | 14,942 | 53,744  | 1,991,708 | 887,605   | 301,163 | 96,258  | 2009         |
|      | 19,870 | 62,197  | 1,362,214 | 960,709   | 290,809 | 111,266 | 2018         |
| SC   | 6,990  | 56,315  | 1,241,359 | 413,964   | 113,714 | 248,341 | 2002 Actual  |
|      | 6,969  | 56,315  | 1,241,359 | 413,964   | 113,714 | 253,005 | 2002 Typical |
|      | 11,643 | 59,934  | 889,957   | 448,625   | 90,390  | 282,307 | 2009         |
|      | 14,975 | 68,415  | 663,493   | 481,332   | 83,167  | 282,307 | 2018         |
| TN   | 7,084  | 115,264 | 1,917,842 | 505,163   | 89,828  | 4,302   | 2002 Actual  |
|      | 6,787  | 115,264 | 1,917,842 | 505,163   | 89,828  | 10,124  | 2002 Typical |
|      | 7,214  | 119,216 | 1,338,016 | 554,121   | 74,189  | 17,372  | 2009         |
|      | 7,723  | 140,556 | 976,634   | 593,100   | 68,809  | 18,860  | 2018         |
| VA   | 6,892  | 63,796  | 2,163,259 | 660,105   | 155,873 | 15,625  | 2002 Actual  |
|      | 6,797  | 63,784  | 2,163,259 | 660,105   | 155,873 | 12,611  | 2002 Typical |
|      | 12,535 | 68,326  | 1,453,946 | 726,815   | 128,132 | 21,130  | 2009         |
|      | 18,850 | 76,846  | 1,075,104 | 797,683   | 121,690 | 26,923  | 2018         |
| WV   | 10,341 | 89,879  | 533,471   | 133,113   | 39,546  | 6,738   | 2002 Actual  |
|      | 10,117 | 89,878  | 533,471   | 133,113   | 39,546  | 2,652   | 2002 Typical |
|      | 11,493 | 93,839  | 365,549   | 152,862   | 31,640  | 3,949   | 2009         |
|      | 12,397 | 111,302 | 274,804   | 167,424   | 28,773  | 5,013   | 2018         |



## Annual NH<sub>3</sub> Emissions by Source Sector



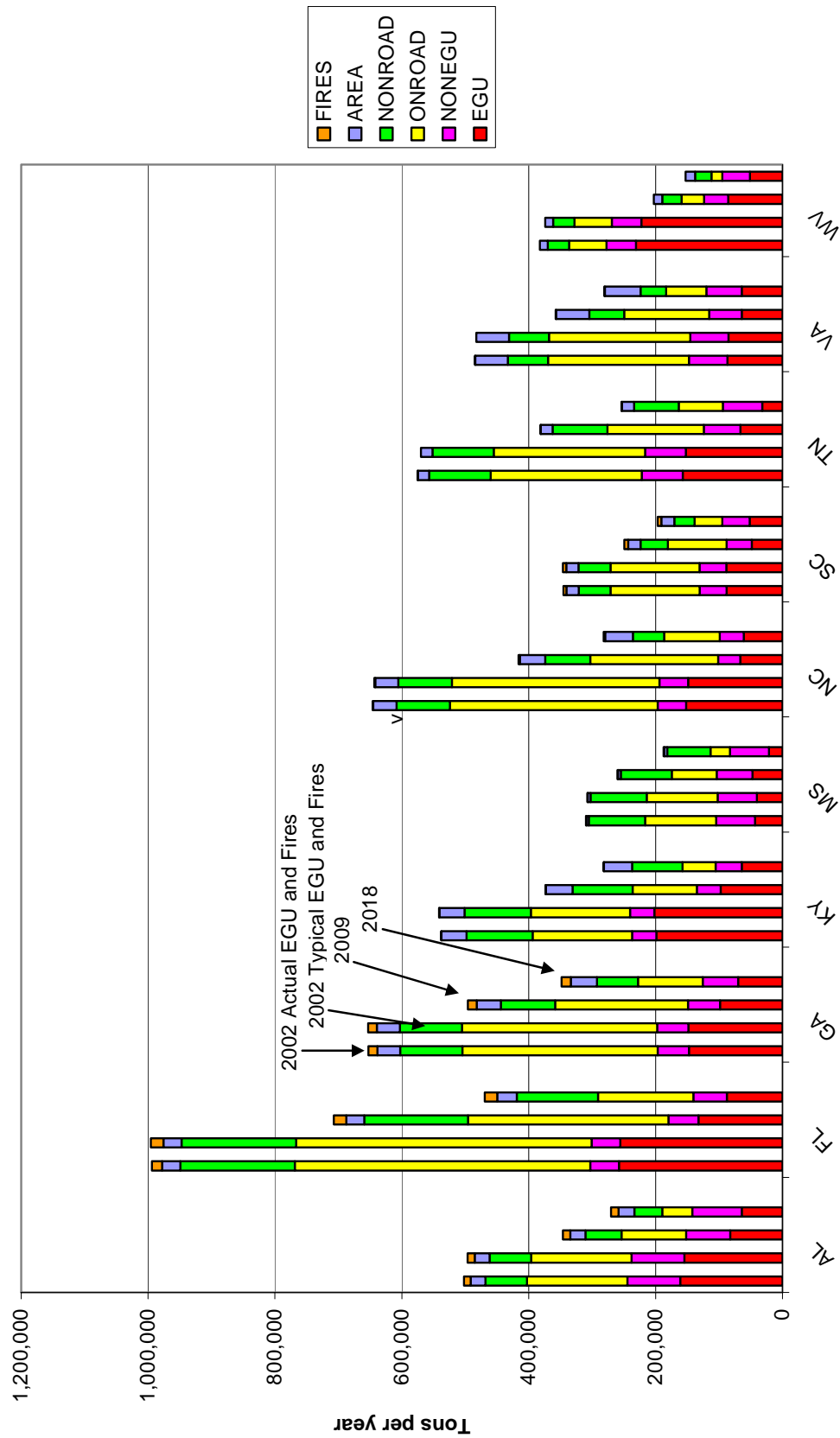


**Annual NH<sub>3</sub> Emissions by Source Sector**

| Name | EGU   | NONEGU | ONROAD | NONROAD | AREA    | FIRES | YEAR         |
|------|-------|--------|--------|---------|---------|-------|--------------|
| AL   | 317   | 1,883  | 5,588  | 33      | 58,318  | 1,689 | 2002 Actual  |
|      | 239   | 1,883  | 5,588  | 33      | 58,318  | 1,957 | 2002 Typical |
|      | 359   | 2,132  | 6,364  | 36      | 64,268  | 2,050 | 2009         |
|      | 1,072 | 2,464  | 7,298  | 42      | 71,915  | 2,054 | 2018         |
| FL   | 234   | 1,423  | 18,114 | 134     | 37,446  | 3,102 | 2002 Actual  |
|      | 222   | 1,423  | 18,114 | 134     | 37,446  | 3,157 | 2002 Typical |
|      | 1,629 | 1,544  | 21,781 | 148     | 38,616  | 3,157 | 2009         |
|      | 2,976 | 1,829  | 26,163 | 171     | 40,432  | 3,157 | 2018         |
| GA   | 83    | 3,613  | 10,546 | 60      | 80,913  | 2,578 | 2002 Actual  |
|      | 86    | 3,613  | 10,546 | 60      | 80,913  | 2,153 | 2002 Typical |
|      | 686   | 3,963  | 12,687 | 68      | 89,212  | 2,229 | 2009         |
|      | 1,677 | 4,797  | 14,873 | 79      | 99,885  | 2,229 | 2018         |
| KY   | 326   | 674    | 5,055  | 31      | 51,135  | 39    | 2002 Actual  |
|      | 321   | 674    | 5,055  | 31      | 51,135  | 112   | 2002 Typical |
|      | 400   | 760    | 5,796  | 34      | 53,005  | 143   | 2009         |
|      | 476   | 901    | 7,811  | 40      | 55,211  | 150   | 2018         |
| MS   | 190   | 1,169  | 3,585  | 23      | 58,721  | 59    | 2002 Actual  |
|      | 198   | 1,169  | 3,585  | 23      | 58,721  | 65    | 2002 Typical |
|      | 334   | 668    | 4,035  | 25      | 63,708  | 217   | 2009         |
|      | 827   | 764    | 4,566  | 29      | 69,910  | 225   | 2018         |
| NC   | 54    | 1,179  | 9,702  | 65      | 161,860 | 155   | 2002 Actual  |
|      | 55    | 1,179  | 9,702  | 65      | 161,860 | 324   | 2002 Typical |
|      | 445   | 1,285  | 11,825 | 72      | 170,314 | 433   | 2009         |
|      | 663   | 1,465  | 14,065 | 83      | 180,866 | 501   | 2018         |
| SC   | 142   | 1,411  | 4,694  | 33      | 28,166  | 980   | 2002 Actual  |
|      | 141   | 1,411  | 4,694  | 33      | 28,166  | 908   | 2002 Typical |
|      | 370   | 1,578  | 5,523  | 36      | 30,555  | 1,039 | 2009         |
|      | 625   | 1,779  | 6,473  | 41      | 33,496  | 1,039 | 2018         |
| TN   | 204   | 1,613  | 6,625  | 43      | 34,393  | 19    | 2002 Actual  |
|      | 197   | 1,613  | 6,625  | 43      | 34,393  | 46    | 2002 Typical |
|      | 227   | 1,840  | 7,782  | 48      | 35,253  | 78    | 2009         |
|      | 241   | 2,213  | 9,021  | 55      | 36,291  | 85    | 2018         |
| VA   | 127   | 3,104  | 7,852  | 48      | 43,905  | 70    | 2002 Actual  |
|      | 130   | 3,104  | 7,852  | 48      | 43,905  | 57    | 2002 Typical |
|      | 694   | 3,045  | 9,086  | 53      | 46,639  | 95    | 2009         |
|      | 606   | 3,604  | 10,624 | 61      | 50,175  | 121   | 2018         |
| WV   | 121   | 332    | 1,908  | 9       | 9,963   | 30    | 2002 Actual  |
|      | 121   | 332    | 1,908  | 9       | 9,963   | 12    | 2002 Typical |
|      | 330   | 314    | 2,148  | 11      | 10,625  | 18    | 2009         |
|      | 143   | 378    | 2,497  | 13      | 11,504  | 23    | 2018         |



## Annual NOx Emissions by Source Sector



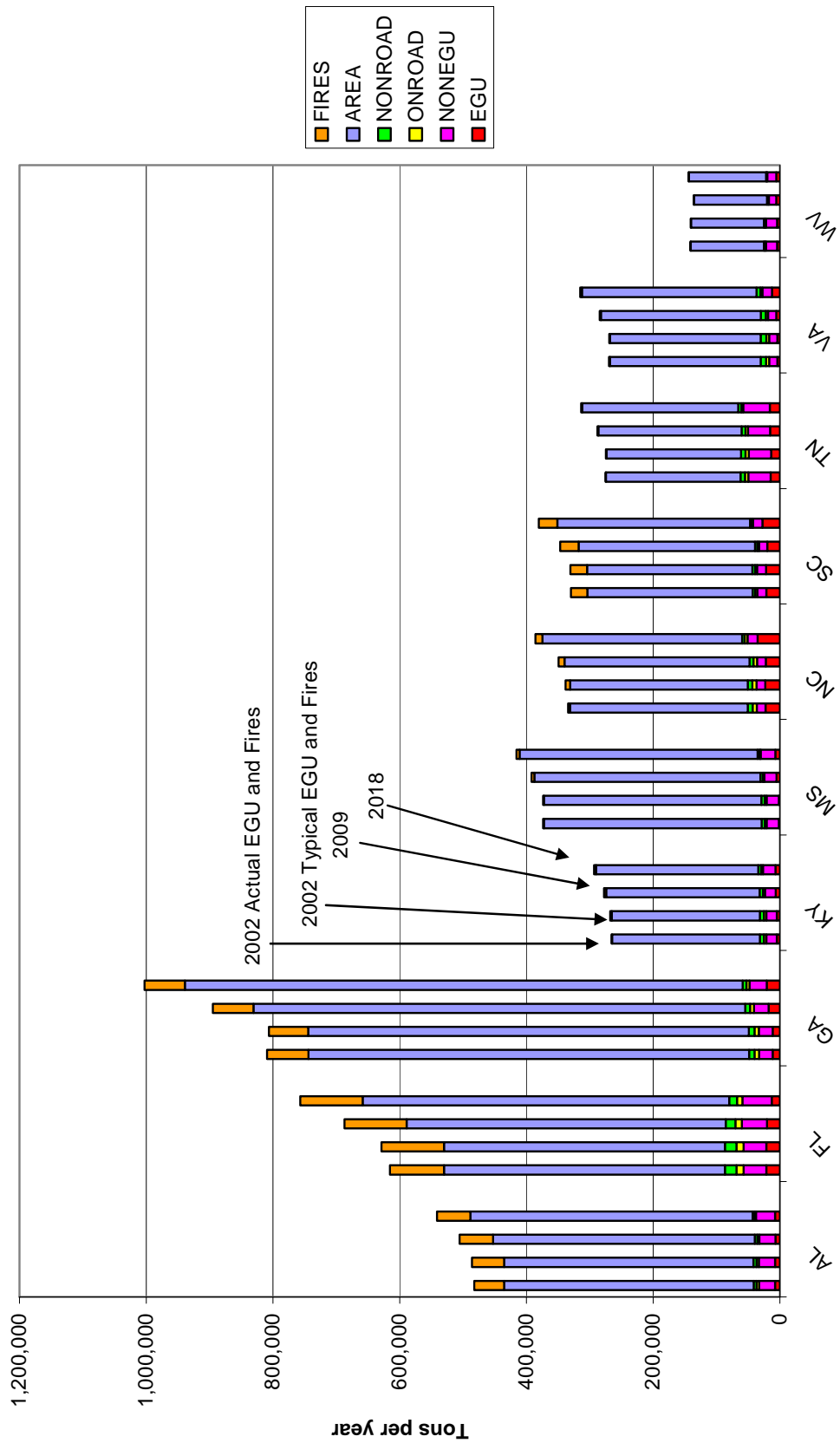


**Annual NO<sub>x</sub> Emissions by Source Sector**

| Name | EGU     | NONEGU | ONROAD  | NONROAD | AREA   | FIRES  | YEAR         |
|------|---------|--------|---------|---------|--------|--------|--------------|
| AL   | 161,038 | 83,310 | 158,212 | 65,366  | 23,444 | 10,728 | 2002 Actual  |
|      | 154,704 | 83,302 | 158,212 | 65,366  | 23,444 | 11,456 | 2002 Typical |
|      | 82,305  | 69,409 | 101,831 | 56,862  | 23,930 | 11,901 | 2009         |
|      | 64,358  | 77,960 | 47,298  | 43,799  | 25,028 | 11,918 | 2018         |
| FL   | 257,677 | 45,156 | 465,640 | 180,627 | 28,872 | 15,942 | 2002 Actual  |
|      | 255,678 | 45,150 | 465,640 | 180,627 | 28,872 | 19,791 | 2002 Typical |
|      | 132,535 | 47,125 | 315,840 | 163,794 | 28,187 | 19,791 | 2009         |
|      | 87,645  | 52,959 | 150,180 | 127,885 | 30,708 | 19,791 | 2018         |
| GA   | 147,517 | 49,251 | 307,732 | 97,961  | 36,142 | 14,203 | 2002 Actual  |
|      | 148,126 | 49,251 | 307,732 | 97,961  | 36,142 | 13,882 | 2002 Typical |
|      | 98,497  | 50,353 | 209,349 | 85,733  | 37,729 | 14,243 | 2009         |
|      | 69,856  | 55,824 | 102,179 | 64,579  | 41,332 | 14,243 | 2018         |
| KY   | 198,817 | 38,392 | 156,417 | 104,571 | 39,507 | 187    | 2002 Actual  |
|      | 201,928 | 38,434 | 156,417 | 104,571 | 39,507 | 534    | 2002 Typical |
|      | 97,263  | 37,758 | 101,182 | 94,752  | 42,088 | 682    | 2009         |
|      | 64,378  | 41,034 | 52,263  | 79,392  | 44,346 | 714    | 2018         |
| MS   | 43,135  | 61,526 | 111,914 | 88,787  | 4,200  | 283    | 2002 Actual  |
|      | 40,433  | 61,553 | 111,914 | 88,787  | 4,200  | 308    | 2002 Typical |
|      | 47,276  | 56,398 | 70,743  | 80,567  | 4,249  | 1,033  | 2009         |
|      | 21,535  | 61,252 | 30,619  | 68,252  | 4,483  | 1,073  | 2018         |
| NC   | 151,850 | 44,929 | 327,329 | 84,284  | 36,550 | 740    | 2002 Actual  |
|      | 148,812 | 44,929 | 327,329 | 84,284  | 36,550 | 1,544  | 2002 Typical |
|      | 66,521  | 34,768 | 201,609 | 70,997  | 39,954 | 2,065  | 2009         |
|      | 61,110  | 37,802 | 87,791  | 49,046  | 43,865 | 2,387  | 2018         |
| SC   | 88,241  | 42,153 | 140,489 | 50,249  | 19,332 | 4,932  | 2002 Actual  |
|      | 88,528  | 42,153 | 140,489 | 50,249  | 19,332 | 5,270  | 2002 Typical |
|      | 48,668  | 39,368 | 92,499  | 43,235  | 19,360 | 5,899  | 2009         |
|      | 51,751  | 43,331 | 43,490  | 31,758  | 20,592 | 5,899  | 2018         |
| TN   | 157,307 | 64,344 | 238,577 | 96,827  | 17,844 | 92     | 2002 Actual  |
|      | 152,137 | 64,344 | 238,577 | 96,827  | 17,844 | 217    | 2002 Typical |
|      | 66,405  | 57,514 | 151,912 | 86,641  | 18,499 | 373    | 2009         |
|      | 31,715  | 62,519 | 69,385  | 70,226  | 19,597 | 405    | 2018         |
| VA   | 86,886  | 60,415 | 222,374 | 63,219  | 51,418 | 335    | 2002 Actual  |
|      | 85,081  | 60,390 | 222,374 | 63,219  | 51,418 | 271    | 2002 Typical |
|      | 64,358  | 51,001 | 134,232 | 54,993  | 52,618 | 453    | 2009         |
|      | 64,344  | 55,734 | 63,342  | 40,393  | 56,158 | 578    | 2018         |
| WV   | 230,977 | 46,612 | 58,999  | 33,239  | 12,687 | 145    | 2002 Actual  |
|      | 222,437 | 46,618 | 58,999  | 33,239  | 12,687 | 57     | 2002 Typical |
|      | 85,476  | 38,023 | 35,635  | 30,133  | 13,439 | 85     | 2009         |
|      | 51,474  | 43,280 | 17,247  | 25,710  | 14,828 | 108    | 2018         |



### Annual PM<sub>10</sub> Emissions by Source Sector



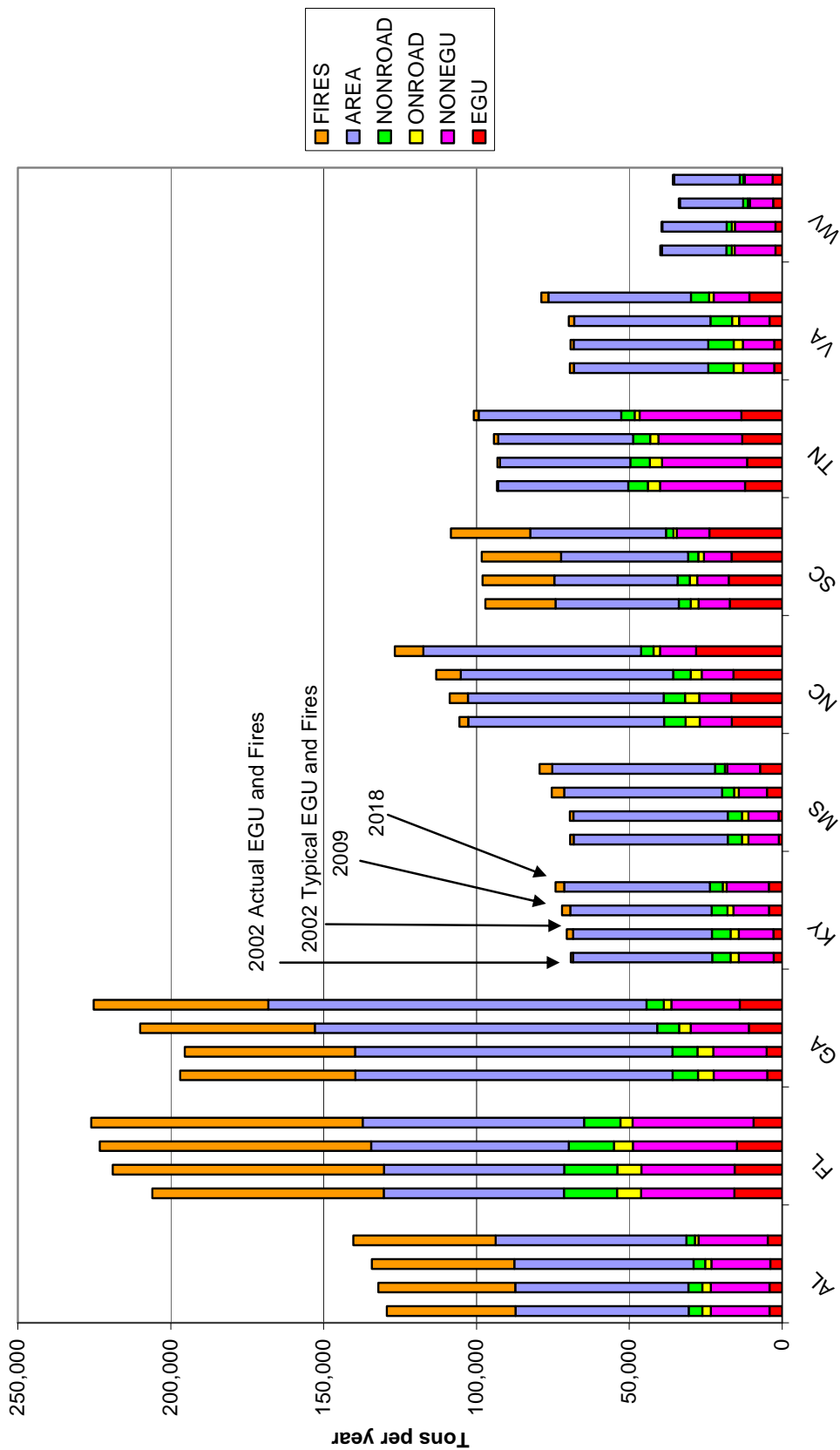


**Annual PM<sub>10</sub> Emissions by Source Sector**

| Name | EGU    | NONEGU | ONROAD | NONROAD | AREA    | FIRES  | YEAR         |
|------|--------|--------|--------|---------|---------|--------|--------------|
| AL   | 7,646  | 25,240 | 3,903  | 4,787   | 393,588 | 47,237 | 2002 Actual  |
|      | 7,845  | 25,239 | 3,903  | 4,787   | 393,588 | 50,833 | 2002 Typical |
|      | 6,969  | 25,421 | 3,171  | 4,027   | 413,020 | 52,851 | 2009         |
|      | 7,822  | 29,889 | 2,410  | 3,041   | 445,256 | 52,927 | 2018         |
| FL   | 21,387 | 35,857 | 11,275 | 18,281  | 443,346 | 85,263 | 2002 Actual  |
|      | 21,391 | 35,856 | 11,275 | 18,281  | 443,346 | 98,470 | 2002 Typical |
|      | 20,182 | 39,947 | 9,911  | 15,613  | 503,230 | 98,470 | 2009         |
|      | 12,791 | 46,492 | 8,268  | 12,497  | 578,516 | 98,470 | 2018         |
| GA   | 11,224 | 21,610 | 7,246  | 8,618   | 695,414 | 65,227 | 2002 Actual  |
|      | 11,467 | 21,610 | 7,246  | 8,618   | 695,414 | 62,336 | 2002 Typical |
|      | 17,891 | 23,103 | 6,072  | 7,521   | 776,411 | 63,973 | 2009         |
|      | 20,732 | 27,273 | 4,844  | 6,015   | 880,199 | 63,973 | 2018         |
| KY   | 4,701  | 16,626 | 3,723  | 6,425   | 233,559 | 846    | 2002 Actual  |
|      | 4,795  | 16,626 | 3,723  | 6,425   | 233,559 | 2,421  | 2002 Typical |
|      | 6,463  | 17,174 | 2,976  | 5,544   | 242,177 | 3,093  | 2009         |
|      | 6,694  | 20,153 | 2,580  | 4,556   | 256,052 | 3,237  | 2018         |
| MS   | 1,633  | 19,472 | 2,859  | 5,010   | 343,377 | 1,284  | 2002 Actual  |
|      | 1,706  | 19,469 | 2,859  | 5,010   | 343,377 | 1,396  | 2002 Typical |
|      | 5,182  | 19,245 | 2,275  | 4,270   | 356,324 | 4,683  | 2009         |
|      | 7,412  | 22,837 | 1,624  | 3,452   | 375,495 | 4,865  | 2018         |
| NC   | 22,754 | 13,838 | 6,579  | 7,348   | 280,379 | 3,356  | 2002 Actual  |
|      | 22,994 | 13,838 | 6,579  | 7,348   | 280,379 | 6,998  | 2002 Typical |
|      | 22,152 | 13,910 | 5,572  | 6,055   | 292,443 | 9,359  | 2009         |
|      | 35,275 | 15,737 | 4,392  | 4,298   | 315,294 | 10,819 | 2018         |
| SC   | 21,400 | 14,142 | 3,452  | 4,152   | 260,858 | 25,968 | 2002 Actual  |
|      | 21,827 | 14,142 | 3,452  | 4,152   | 260,858 | 26,304 | 2002 Typical |
|      | 20,041 | 12,959 | 2,862  | 3,471   | 278,299 | 29,153 | 2009         |
|      | 27,640 | 14,674 | 2,184  | 2,617   | 304,251 | 29,153 | 2018         |
| TN   | 14,640 | 35,174 | 5,371  | 6,819   | 212,554 | 418    | 2002 Actual  |
|      | 13,866 | 35,174 | 5,371  | 6,819   | 212,554 | 984    | 2002 Typical |
|      | 15,608 | 34,581 | 4,206  | 5,877   | 226,098 | 1,689  | 2009         |
|      | 15,941 | 41,999 | 3,092  | 4,672   | 246,252 | 1,834  | 2018         |
| VA   | 3,960  | 13,252 | 4,549  | 8,728   | 237,577 | 1,519  | 2002 Actual  |
|      | 3,892  | 13,252 | 4,549  | 8,728   | 237,577 | 1,226  | 2002 Typical |
|      | 5,606  | 13,046 | 3,747  | 7,510   | 252,488 | 2,054  | 2009         |
|      | 12,551 | 15,111 | 3,212  | 6,208   | 275,351 | 2,618  | 2018         |
| WV   | 4,573  | 17,503 | 1,381  | 1,850   | 115,346 | 655    | 2002 Actual  |
|      | 4,472  | 17,503 | 1,381  | 1,850   | 115,346 | 258    | 2002 Typical |
|      | 5,657  | 11,882 | 1,068  | 1,640   | 115,089 | 384    | 2009         |
|      | 5,784  | 14,202 | 819    | 1,292   | 121,549 | 487    | 2018         |



# Annual PM<sub>2.5</sub> Emissions by Source Sector



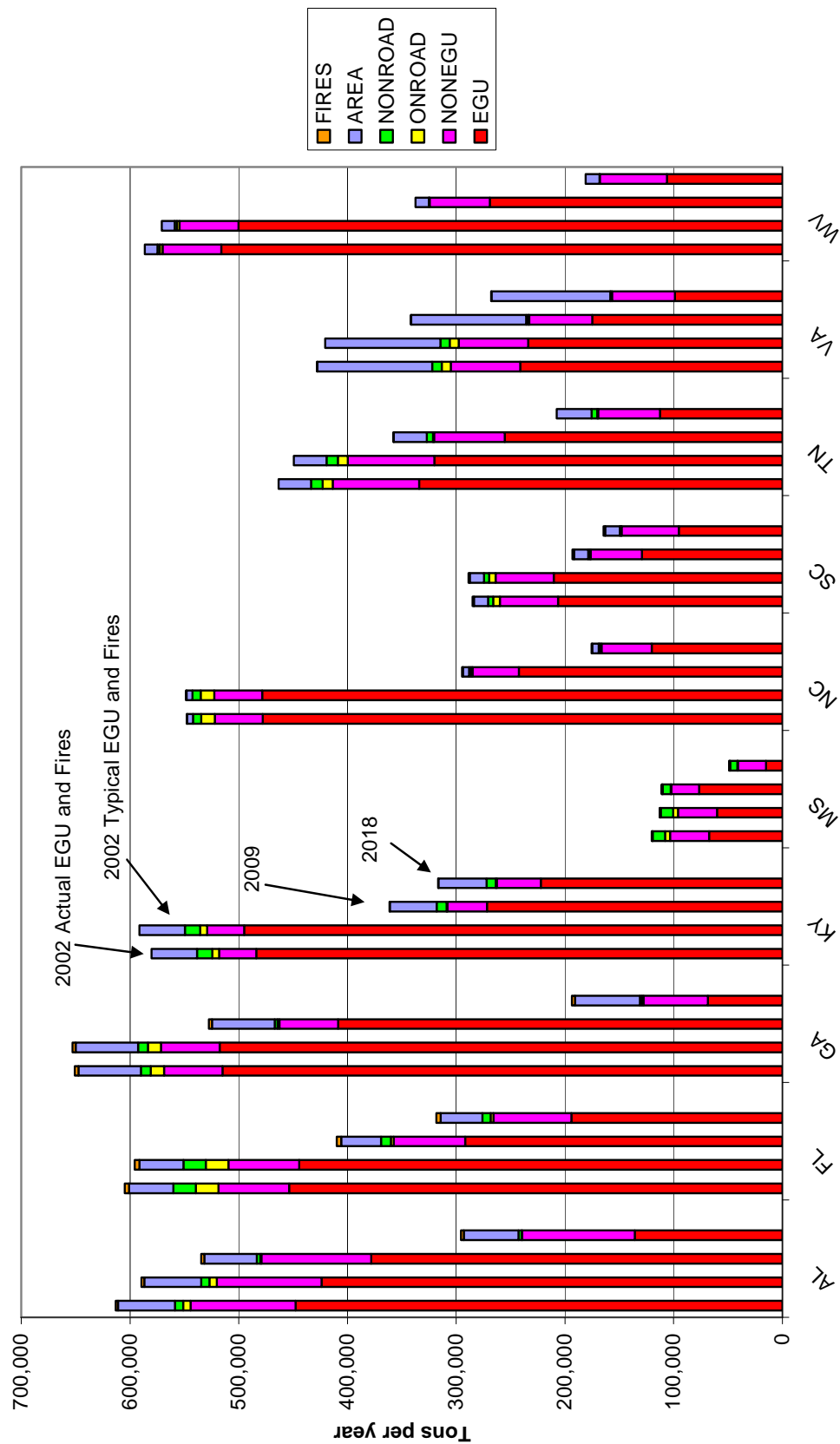


**Annual PM<sub>2.5</sub> Emissions by Source Sector**

| Name | EGU    | NONEGU | ONROAD | NONROAD | AREA    | FIRES  | YEAR         |
|------|--------|--------|--------|---------|---------|--------|--------------|
| AL   | 4,113  | 19,178 | 2,799  | 4,502   | 56,654  | 42,041 | 2002 Actual  |
|      | 4,176  | 19,177 | 2,799  | 4,502   | 56,654  | 44,812 | 2002 Typical |
|      | 3,921  | 19,230 | 2,032  | 3,776   | 58,699  | 46,543 | 2009         |
|      | 4,768  | 22,584 | 1,192  | 2,835   | 62,323  | 46,608 | 2018         |
| FL   | 15,643 | 30,504 | 7,868  | 17,415  | 58,878  | 75,717 | 2002 Actual  |
|      | 15,575 | 30,504 | 7,868  | 17,415  | 58,878  | 88,756 | 2002 Typical |
|      | 14,790 | 34,019 | 6,173  | 14,866  | 64,589  | 88,756 | 2009         |
|      | 9,417  | 39,486 | 4,038  | 11,868  | 72,454  | 88,756 | 2018         |
| GA   | 4,939  | 17,462 | 5,168  | 8,226   | 103,794 | 57,293 | 2002 Actual  |
|      | 5,070  | 17,462 | 5,168  | 8,226   | 103,794 | 55,712 | 2002 Typical |
|      | 10,907 | 18,982 | 3,840  | 7,175   | 112,001 | 57,116 | 2009         |
|      | 13,881 | 22,416 | 2,380  | 5,730   | 123,704 | 57,116 | 2018         |
| KY   | 2,802  | 11,372 | 2,697  | 6,046   | 45,453  | 726    | 2002 Actual  |
|      | 2,847  | 11,372 | 2,697  | 6,046   | 45,453  | 2,076  | 2002 Typical |
|      | 4,279  | 11,686 | 1,920  | 5,203   | 46,243  | 2,653  | 2009         |
|      | 4,434  | 13,739 | 1,272  | 4,256   | 47,645  | 2,777  | 2018         |
| MS   | 1,138  | 9,906  | 2,112  | 4,690   | 50,401  | 1,102  | 2002 Actual  |
|      | 1,147  | 9,902  | 2,112  | 4,690   | 50,401  | 1,197  | 2002 Typical |
|      | 4,996  | 9,199  | 1,508  | 3,985   | 51,661  | 4,016  | 2009         |
|      | 7,252  | 10,719 | 819    | 3,203   | 53,222  | 4,173  | 2018         |
| NC   | 16,498 | 10,500 | 4,623  | 7,005   | 64,052  | 2,878  | 2002 Actual  |
|      | 16,623 | 10,500 | 4,623  | 7,005   | 64,052  | 6,002  | 2002 Typical |
|      | 15,949 | 10,458 | 3,493  | 5,760   | 69,457  | 8,027  | 2009         |
|      | 28,137 | 11,825 | 2,123  | 4,069   | 71,262  | 9,279  | 2018         |
| SC   | 17,154 | 10,245 | 2,501  | 3,945   | 40,291  | 22,953 | 2002 Actual  |
|      | 17,521 | 10,245 | 2,501  | 3,945   | 40,291  | 23,511 | 2002 Typical |
|      | 16,548 | 9,048  | 1,855  | 3,294   | 41,613  | 25,955 | 2009         |
|      | 23,794 | 10,699 | 1,087  | 2,474   | 44,319  | 25,955 | 2018         |
| TN   | 12,166 | 27,807 | 3,949  | 6,458   | 42,566  | 359    | 2002 Actual  |
|      | 11,491 | 27,807 | 3,949  | 6,458   | 42,566  | 844    | 2002 Typical |
|      | 13,092 | 27,367 | 2,751  | 5,557   | 44,124  | 1,449  | 2009         |
|      | 13,387 | 33,293 | 1,544  | 4,403   | 46,692  | 1,573  | 2018         |
| VA   | 2,606  | 10,165 | 3,102  | 8,288   | 43,989  | 1,303  | 2002 Actual  |
|      | 2,650  | 10,165 | 3,102  | 8,288   | 43,989  | 1,052  | 2002 Typical |
|      | 4,165  | 9,988  | 2,241  | 7,136   | 44,514  | 1,762  | 2009         |
|      | 10,773 | 11,605 | 1,543  | 5,891   | 46,697  | 2,245  | 2018         |
| WV   | 2,210  | 13,313 | 995    | 1,728   | 21,049  | 562    | 2002 Actual  |
|      | 2,163  | 13,313 | 995    | 1,728   | 21,049  | 221    | 2002 Typical |
|      | 2,940  | 7,638  | 684    | 1,528   | 20,664  | 329    | 2009         |
|      | 3,116  | 9,124  | 405    | 1,198   | 21,490  | 418    | 2018         |



## Annual SO<sub>2</sub> Emissions by Source Sector



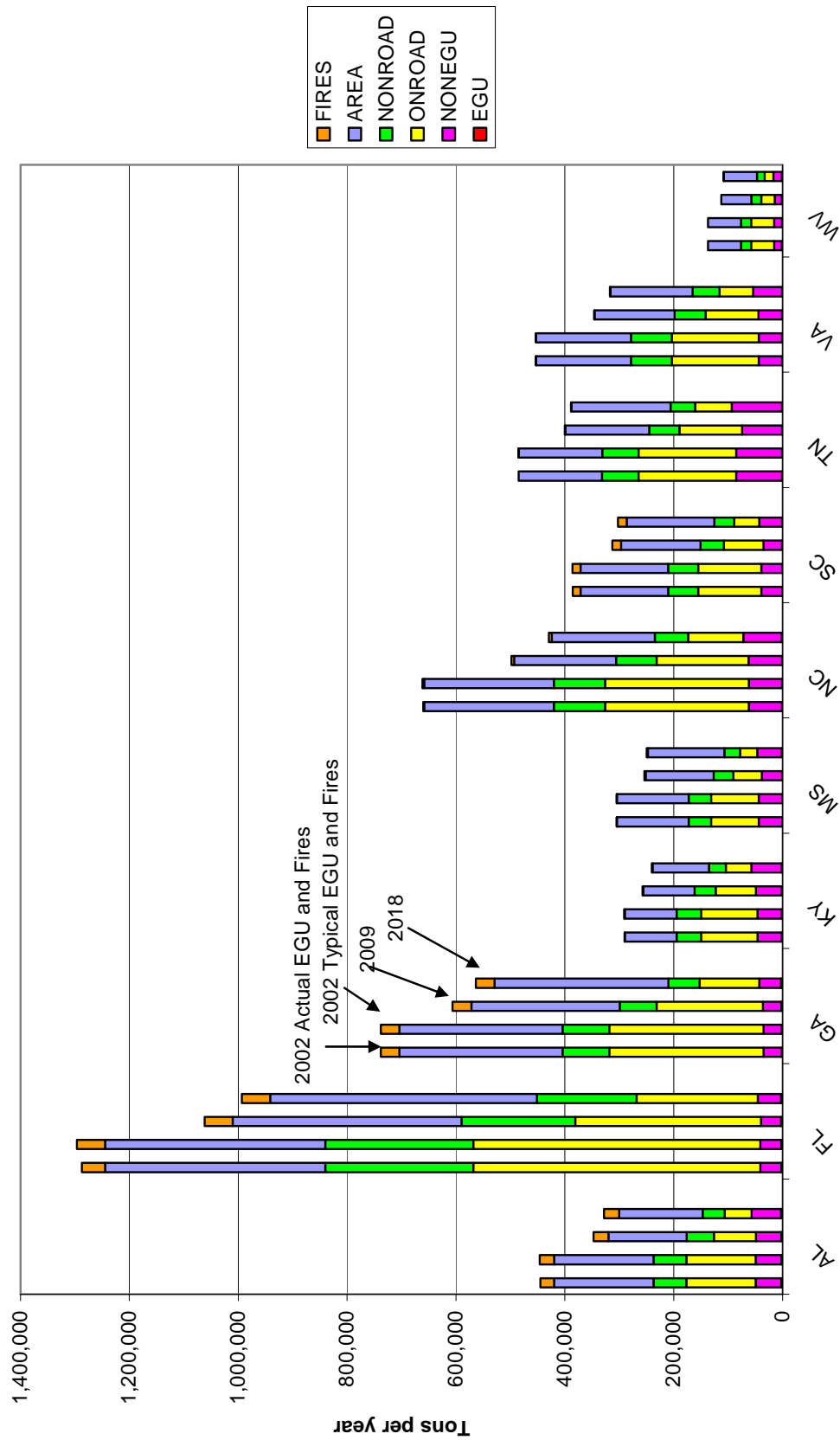


Annual SO<sub>2</sub> Emissions by Source Sector

| Name | EGU     | NONEGU  | ONROAD | NONROAD | AREA    | FIRES | YEAR         |
|------|---------|---------|--------|---------|---------|-------|--------------|
| AL   | 447,828 | 96,481  | 6,900  | 7,584   | 52,253  | 2,208 | 2002 Actual  |
|      | 423,736 | 96,481  | 6,900  | 7,584   | 52,253  | 2,559 | 2002 Typical |
|      | 378,052 | 101,246 | 810    | 3,471   | 48,228  | 2,681 | 2009         |
|      | 135,851 | 103,303 | 720    | 2,818   | 50,264  | 2,686 | 2018         |
| FL   | 453,631 | 65,090  | 20,915 | 20,614  | 40,491  | 4,057 | 2002 Actual  |
|      | 444,383 | 65,090  | 20,915 | 20,614  | 40,491  | 4,129 | 2002 Typical |
|      | 291,831 | 65,651  | 2,612  | 8,967   | 36,699  | 4,129 | 2009         |
|      | 194,028 | 71,810  | 2,533  | 7,536   | 38,317  | 4,129 | 2018         |
| GA   | 514,952 | 53,774  | 12,184 | 9,005   | 57,559  | 3,372 | 2002 Actual  |
|      | 517,633 | 53,778  | 12,184 | 9,005   | 57,559  | 2,815 | 2002 Typical |
|      | 408,679 | 53,983  | 1,585  | 2,725   | 57,696  | 2,914 | 2009         |
|      | 68,515  | 59,343  | 1,457  | 1,709   | 59,729  | 2,914 | 2018         |
| KY   | 484,057 | 34,029  | 6,308  | 14,043  | 41,805  | 51    | 2002 Actual  |
|      | 495,153 | 34,029  | 6,308  | 14,043  | 41,805  | 146   | 2002 Typical |
|      | 271,669 | 36,418  | 759    | 9,180   | 43,087  | 187   | 2009         |
|      | 222,102 | 40,682  | 763    | 8,592   | 44,186  | 196   | 2018         |
| MS   | 67,429  | 35,960  | 4,614  | 11,315  | 771     | 78    | 2002 Actual  |
|      | 60,086  | 35,954  | 4,614  | 11,315  | 771     | 84    | 2002 Typical |
|      | 76,646  | 25,564  | 537    | 7,191   | 753     | 283   | 2009         |
|      | 15,213  | 25,674  | 440    | 6,638   | 746     | 294   | 2018         |
| NC   | 477,990 | 44,123  | 12,420 | 7,693   | 5,412   | 203   | 2002 Actual  |
|      | 478,488 | 44,123  | 12,420 | 7,693   | 5,412   | 423   | 2002 Typical |
|      | 242,286 | 42,536  | 1,503  | 1,892   | 5,751   | 566   | 2009         |
|      | 120,165 | 46,314  | 1,481  | 905     | 6,085   | 655   | 2018         |
| SC   | 206,399 | 53,518  | 5,972  | 4,866   | 12,900  | 1,281 | 2002 Actual  |
|      | 210,272 | 53,518  | 5,972  | 4,866   | 12,900  | 1,187 | 2002 Typical |
|      | 129,122 | 47,193  | 721    | 1,701   | 13,051  | 1,359 | 2009         |
|      | 95,377  | 52,410  | 643    | 1,198   | 13,457  | 1,359 | 2018         |
| TN   | 334,151 | 79,604  | 9,226  | 10,441  | 29,917  | 25    | 2002 Actual  |
|      | 320,146 | 79,604  | 9,226  | 10,441  | 29,917  | 60    | 2002 Typical |
|      | 255,410 | 64,964  | 1,076  | 5,651   | 30,577  | 102   | 2009         |
|      | 112,672 | 56,682  | 948    | 5,207   | 31,962  | 111   | 2018         |
| VA   | 241,204 | 63,903  | 8,294  | 8,663   | 105,890 | 92    | 2002 Actual  |
|      | 233,691 | 63,900  | 8,294  | 8,663   | 105,890 | 74    | 2002 Typical |
|      | 174,777 | 58,039  | 1,079  | 1,707   | 105,984 | 124   | 2009         |
|      | 98,988  | 57,790  | 1,043  | 507     | 109,380 | 158   | 2018         |
| WV   | 516,084 | 54,070  | 2,464  | 2,112   | 11,667  | 40    | 2002 Actual  |
|      | 500,381 | 54,077  | 2,464  | 2,112   | 11,667  | 16    | 2002 Typical |
|      | 268,952 | 55,598  | 279    | 359     | 12,284  | 23    | 2009         |
|      | 106,199 | 61,702  | 253    | 56      | 12,849  | 29    | 2018         |



### Annual VOC Emissions by Source Sector





**Annual VOC Emissions by Source Sector**

| Name | EGU   | NONEGU | ONROAD  | NONROAD | AREA    | FIRES  | YEAR         |
|------|-------|--------|---------|---------|---------|--------|--------------|
| AL   | 2,295 | 47,037 | 127,295 | 60,487  | 182,674 | 25,278 | 2002 Actual  |
|      | 2,288 | 47,035 | 127,295 | 60,487  | 182,674 | 26,526 | 2002 Typical |
|      | 2,473 | 46,644 | 76,990  | 50,249  | 143,454 | 27,502 | 2009         |
|      | 2,952 | 54,291 | 49,175  | 40,407  | 153,577 | 27,539 | 2018         |
| FL   | 2,524 | 38,471 | 527,209 | 272,072 | 404,302 | 42,724 | 2002 Actual  |
|      | 2,531 | 38,471 | 527,209 | 272,072 | 404,302 | 51,527 | 2002 Typical |
|      | 2,730 | 36,882 | 340,947 | 209,543 | 420,172 | 51,527 | 2009         |
|      | 3,047 | 42,813 | 222,303 | 183,452 | 489,975 | 51,527 | 2018         |
| GA   | 1,244 | 33,709 | 283,421 | 85,965  | 299,679 | 33,979 | 2002 Actual  |
|      | 1,256 | 33,709 | 283,421 | 85,965  | 299,679 | 33,918 | 2002 Typical |
|      | 2,314 | 34,116 | 195,125 | 67,686  | 272,315 | 34,710 | 2009         |
|      | 2,816 | 40,282 | 109,763 | 56,761  | 319,328 | 34,710 | 2018         |
| KY   | 1,487 | 44,834 | 103,503 | 44,805  | 95,375  | 410    | 2002 Actual  |
|      | 1,481 | 44,834 | 103,503 | 44,805  | 95,375  | 1,172  | 2002 Typical |
|      | 1,369 | 47,786 | 73,942  | 38,558  | 94,042  | 1,497  | 2009         |
|      | 1,426 | 55,861 | 47,066  | 30,920  | 103,490 | 1,567  | 2018         |
| MS   | 648   | 43,204 | 87,672  | 41,081  | 131,808 | 622    | 2002 Actual  |
|      | 629   | 43,203 | 87,672  | 41,081  | 131,808 | 675    | 2002 Typical |
|      | 564   | 37,747 | 52,107  | 36,197  | 124,977 | 2,266  | 2009         |
|      | 1,274 | 45,335 | 31,616  | 28,842  | 140,134 | 2,355  | 2018         |
| NC   | 988   | 61,182 | 263,766 | 94,480  | 237,926 | 1,624  | 2002 Actual  |
|      | 986   | 61,182 | 263,766 | 94,480  | 237,926 | 3,387  | 2002 Typical |
|      | 954   | 61,925 | 168,676 | 74,056  | 187,769 | 4,530  | 2009         |
|      | 1,302 | 70,875 | 101,099 | 61,327  | 189,591 | 5,236  | 2018         |
| SC   | 470   | 38,458 | 116,163 | 55,016  | 161,000 | 14,202 | 2002 Actual  |
|      | 470   | 38,458 | 116,163 | 55,016  | 161,000 | 14,666 | 2002 Typical |
|      | 723   | 34,403 | 72,603  | 43,061  | 146,107 | 16,045 | 2009         |
|      | 931   | 41,987 | 46,301  | 36,131  | 161,228 | 16,045 | 2018         |
| TN   | 926   | 84,328 | 179,807 | 66,450  | 153,307 | 202    | 2002 Actual  |
|      | 890   | 84,328 | 179,807 | 66,450  | 153,307 | 476    | 2002 Typical |
|      | 932   | 73,498 | 115,181 | 55,358  | 154,377 | 817    | 2009         |
|      | 976   | 92,456 | 67,324  | 45,084  | 182,222 | 888    | 2018         |
| VA   | 754   | 43,152 | 159,790 | 74,866  | 174,116 | 735    | 2002 Actual  |
|      | 747   | 43,152 | 159,790 | 74,866  | 174,116 | 593    | 2002 Typical |
|      | 788   | 43,726 | 96,770  | 57,009  | 147,034 | 994    | 2009         |
|      | 980   | 53,186 | 61,964  | 49,052  | 150,919 | 1,267  | 2018         |
| WV   | 1,180 | 14,595 | 42,174  | 18,566  | 60,443  | 317    | 2002 Actual  |
|      | 1,140 | 14,595 | 42,174  | 18,566  | 60,443  | 125    | 2002 Typical |
|      | 1,361 | 13,043 | 24,843  | 18,069  | 55,288  | 186    | 2009         |
|      | 1,387 | 15,582 | 16,121  | 14,086  | 60,747  | 236    | 2018         |



## **APPENDIX B:**

### **STATE VMT TOTALS**



## State VMT Totals

| Million Miles Per Year |         |        |        |       |      |      |        |     |         |
|------------------------|---------|--------|--------|-------|------|------|--------|-----|---------|
| 2002                   | LDGV    | LDGT1  | LDGT2  | HDDV  | LDDV | LDDT | HDDV   | MC  | TOTAL   |
| AL                     | 31,982  | 12,728 | 4,347  | 1,630 | 63   | 69   | 4,709  | 196 | 55,723  |
| FL                     | 105,340 | 40,835 | 13,945 | 5,079 | 206  | 220  | 12,465 | 591 | 178,681 |
| GA                     | 61,660  | 24,394 | 8,331  | 3,103 | 121  | 132  | 8,673  | 371 | 106,785 |
| KY                     | 28,751  | 12,189 | 3,366  | 1,606 | 55   | 55   | 4,827  | 171 | 51,020  |
| MS                     | 23,933  | 6,724  | 439    | 1,025 | 330  | 125  | 3,610  | 92  | 36,278  |
| NC                     | 51,189  | 30,339 | 10,787 | 4,119 | 230  | 230  | 9,440  | 461 | 106,795 |
| SC                     | 26,672  | 10,750 | 3,671  | 1,395 | 52   | 58   | 4,306  | 171 | 47,074  |
| TN                     | 30,809  | 20,272 | 6,922  | 2,943 | 52   | 111  | 6,810  | 397 | 68,316  |
| VA                     | 36,336  | 24,784 | 8,667  | 2,148 | 61   | 139  | 4,969  | 369 | 77,472  |
| WV                     | 9,010   | 5,931  | 2,028  | 732   | 25   | 37   | 1,664  | 117 | 19,544  |

| 2009 | LDGV    | LDGT1  | LDGT2  | HDDV  | LDDV | LDDT | HDDV   | MC  | TOTAL   |
|------|---------|--------|--------|-------|------|------|--------|-----|---------|
| AL   | 30,638  | 18,598 | 5,511  | 2,069 | 65   | 72   | 5,976  | 249 | 63,178  |
| FL   | 107,641 | 62,449 | 18,697 | 6,820 | 215  | 230  | 16,743 | 794 | 213,590 |
| GA   | 61,569  | 36,641 | 10,933 | 4,077 | 126  | 137  | 11,374 | 487 | 125,343 |
| KY   | 28,006  | 16,984 | 4,428  | 1,983 | 58   | 57   | 5,983  | 231 | 57,729  |
| MS   | 23,641  | 10,131 | 573    | 1,341 | 356  | 135  | 4,719  | 120 | 41,017  |
| NC   | 48,495  | 43,484 | 15,122 | 4,576 | 40   | 224  | 10,928 | 527 | 123,396 |
| SC   | 26,451  | 16,119 | 4,796  | 1,824 | 55   | 61   | 5,617  | 223 | 55,147  |
| TN   | 28,775  | 28,650 | 8,521  | 3,627 | 52   | 111  | 8,391  | 490 | 78,615  |
| VA   | 33,663  | 34,814 | 10,597 | 2,624 | 61   | 137  | 6,073  | 451 | 88,419  |
| WV   | 8,128   | 8,205  | 2,427  | 878   | 25   | 37   | 1,995  | 140 | 21,835  |

| 2018 | LDGV    | LDGT1  | LDGT2  | HDDV  | LDDV | LDDT | HDDV   | MC    | TOTAL   |
|------|---------|--------|--------|-------|------|------|--------|-------|---------|
| AL   | 31,706  | 23,562 | 6,990  | 2,634 | 67   | 84   | 7,607  | 317   | 72,966  |
| FL   | 116,576 | 83,385 | 24,996 | 9,156 | 221  | 301  | 22,491 | 1,066 | 258,191 |
| GA   | 65,214  | 47,687 | 14,245 | 5,332 | 129  | 171  | 14,853 | 637   | 148,269 |
| KY   | 29,353  | 21,058 | 5,558  | 2,463 | 60   | 66   | 7,454  | 288   | 66,300  |
| MS   | 24,787  | 12,984 | 736    | 1,727 | 372  | 159  | 6,076  | 155   | 46,996  |
| NC   | 42,247  | 51,568 | 18,260 | 4,985 | 279  | 279  | 11,396 | 553   | 129,566 |
| SC   | 27,930  | 20,880 | 6,220  | 2,375 | 57   | 75   | 7,306  | 290   | 65,133  |
| TN   | 29,253  | 35,702 | 10,629 | 4,538 | 52   | 130  | 10,500 | 613   | 91,417  |
| VA   | 35,030  | 44,438 | 13,543 | 3,358 | 62   | 164  | 7,770  | 578   | 104,944 |
| WV   | 8,130   | 10,025 | 2,969  | 1,078 | 25   | 41   | 2,451  | 172   | 24,891  |



**APPENDIX C:**

**STATE TIER 1 EMISSION TOTALS**



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5          | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| AL    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 11,279           | 317           | 161,038        | 7,646          | 4,113          | 447,828        | 2,295          |
| AL    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 67,132           | 234           | 51,535         | 6,730          | 3,792          | 40,918         | 2,239          |
| AL    | 2002              | 03    | FUEL COMB. OTHER               | 70,498           | 169           | 19,237         | 6,411          | 5,528          | 39,606         | 56,120         |
| AL    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 5,721            | 35            | 2,032          | 1,220          | 888            | 12,770         | 7,273          |
| AL    | 2002              | 05    | METALS PROCESSING              | 38,247           | 376           | 6,011          | 9,107          | 7,803          | 14,039         | 3,299          |
| AL    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 13,606           | 0             | 878            | 194            | 155            | 22,991         | 4,024          |
| AL    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 47,676           | 1,468         | 25,252         | 22,689         | 9,516          | 17,904         | 25,304         |
| AL    | 2002              | 08    | SOLVENT UTILIZATION            | 216              | 0             | 226            | 149            | 126            | 3              | 108,437        |
| AL    | 2002              | 09    | STORAGE & TRANSPORT            | 174              | 0             | 230            | 1,086          | 636            | 13             | 16,522         |
| AL    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 104,914          | 10            | 4,016          | 15,832         | 14,946         | 489            | 12,612         |
| AL    | 2002              | 11    | HIGHWAY VEHICLES               | 1,321,528        | 5,588         | 158,212        | 3,903          | 2,799          | 6,900          | 127,295        |
| AL    | 2002              | 12    | OFF-HIGHWAY                    | 414,385          | 33            | 65,366         | 4,787          | 4,502          | 7,584          | 60,487         |
| AL    | 2002              | 14    | MISCELLANEOUS                  | 385,005          | 59,596        | 8,065          | 402,646        | 74,483         | 2,208          | 19,161         |
|       | <b>2002 Total</b> |       |                                | <b>2,480,381</b> | <b>67,827</b> | <b>502,098</b> | <b>482,402</b> | <b>129,287</b> | <b>613,255</b> | <b>445,065</b> |
| AL    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 14,986           | 359           | 82,305         | 6,969          | 3,921          | 378,052        | 2,473          |
| AL    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 68,146           | 274           | 36,301         | 6,140          | 3,438          | 40,651         | 2,191          |
| AL    | 2009              | 03    | FUEL COMB. OTHER               | 52,256           | 158           | 19,514         | 5,904          | 5,104          | 36,048         | 31,403         |
| AL    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 6,118            | 38            | 2,273          | 1,257          | 912            | 13,660         | 6,613          |
| AL    | 2009              | 05    | METALS PROCESSING              | 38,969           | 500           | 6,021          | 9,062          | 7,756          | 16,629         | 3,305          |
| AL    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 13,241           | 0             | 858            | 221            | 177            | 22,495         | 3,336          |
| AL    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 52,004           | 1,571         | 26,340         | 24,196         | 10,197         | 19,383         | 26,519         |
| AL    | 2009              | 08    | SOLVENT UTILIZATION            | 247              | 0             | 257            | 165            | 139            | 4              | 92,631         |
| AL    | 2009              | 09    | STORAGE & TRANSPORT            | 192              | 0             | 253            | 1,146          | 584            | 14             | 17,738         |
| AL    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 87,225           | 11            | 3,634          | 14,504         | 13,485         | 590            | 11,207         |
| AL    | 2009              | 11    | HIGHWAY VEHICLES               | 915,647          | 6,364         | 101,831        | 3,171          | 2,032          | 810            | 76,990         |
| AL    | 2009              | 12    | OFF-HIGHWAY                    | 454,686          | 36            | 56,862         | 4,027          | 3,776          | 3,471          | 50,249         |
| AL    | 2009              | 14    | MISCELLANEOUS                  | 463,498          | 65,899        | 9,788          | 428,698        | 82,679         | 2,681          | 22,657         |
|       | <b>2009 Total</b> |       |                                | <b>2,167,216</b> | <b>75,209</b> | <b>346,238</b> | <b>505,457</b> | <b>134,201</b> | <b>534,489</b> | <b>347,312</b> |
| AL    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 24,342           | 1,072         | 64,358         | 7,822          | 4,768          | 135,851        | 2,952          |
| AL    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 69,068           | 275           | 38,424         | 6,427          | 3,599          | 40,126         | 2,293          |
| AL    | 2018              | 03    | FUEL COMB. OTHER               | 43,744           | 164           | 20,185         | 5,641          | 4,818          | 37,162         | 21,215         |
| AL    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 7,384            | 46            | 2,804          | 1,523          | 1,106          | 16,509         | 8,040          |
| AL    | 2018              | 05    | METALS PROCESSING              | 49,770           | 674           | 7,519          | 11,036         | 9,423          | 21,824         | 4,234          |
| AL    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 13,002           | 0             | 848            | 258            | 207            | 15,364         | 3,421          |
| AL    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 60,452           | 1,732         | 30,831         | 27,727         | 11,812         | 21,843         | 30,267         |
| AL    | 2018              | 08    | SOLVENT UTILIZATION            | 301              | 0             | 317            | 200            | 169            | 4              | 112,412        |
| AL    | 2018              | 09    | STORAGE & TRANSPORT            | 234              | 0             | 307            | 1,366          | 699            | 17             | 18,900         |
| AL    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 88,758           | 13            | 3,867          | 15,343         | 14,143         | 718            | 11,938         |
| AL    | 2018              | 11    | HIGHWAY VEHICLES               | 676,210          | 7,298         | 47,298         | 2,410          | 1,192          | 720            | 49,175         |
| AL    | 2018              | 12    | OFF-HIGHWAY                    | 488,924          | 42            | 43,799         | 3,041          | 2,835          | 2,818          | 40,407         |
| AL    | 2018              | 14    | MISCELLANEOUS                  | 464,235          | 73,529        | 9,803          | 458,551        | 85,538         | 2,686          | 22,686         |
|       | <b>2018 Total</b> |       |                                | <b>1,986,424</b> | <b>84,845</b> | <b>270,362</b> | <b>541,346</b> | <b>140,310</b> | <b>295,642</b> | <b>327,940</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5          | SO2            | VOC              |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|----------------|----------------|------------------|
| FL    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 57,113           | 234           | 257,677        | 21,387         | 15,643         | 453,631        | 2,524            |
| FL    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 64,798           | 131           | 45,157         | 20,442         | 18,547         | 42,524         | 4,219            |
| FL    | 2002              | 03    | FUEL COMB. OTHER               | 49,230           | 99            | 11,597         | 8,464          | 8,074          | 20,031         | 16,123           |
| FL    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 745              | 1,101         | 2,221          | 1,868          | 1,488          | 34,462         | 3,542            |
| FL    | 2002              | 05    | METALS PROCESSING              | 1,404            | 1             | 194            | 449            | 334            | 882            | 82               |
| FL    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 1,070            | 0             | 560            | 259            | 129            | 470            | 724              |
| FL    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 18,586           | 19            | 12,325         | 23,419         | 11,844         | 6,515          | 27,024           |
| FL    | 2002              | 08    | SOLVENT UTILIZATION            | 0                | 0             | 1              | 128            | 110            | 0              | 304,582          |
| FL    | 2002              | 09    | STORAGE & TRANSPORT            | 161              | 0             | 561            | 1,645          | 720            | 38             | 79,281           |
| FL    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 54,721           | 351           | 2,535          | 9,943          | 9,405          | 659            | 9,125            |
| FL    | 2002              | 11    | HIGHWAY VEHICLES               | 4,550,447        | 18,114        | 465,640        | 11,275         | 7,868          | 20,915         | 527,209          |
| FL    | 2002              | 12    | OFF-HIGHWAY                    | 1,920,729        | 134           | 180,627        | 18,281         | 17,415         | 20,614         | 272,072          |
| FL    | 2002              | 14    | MISCELLANEOUS                  | 752,915          | 40,269        | 14,821         | 497,846        | 114,447        | 4,057          | 40,795           |
|       | <b>2002 Total</b> |       |                                | <b>7,471,920</b> | <b>60,454</b> | <b>993,915</b> | <b>615,407</b> | <b>206,025</b> | <b>604,797</b> | <b>1,287,301</b> |
| FL    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 35,928           | 1,631         | 86,165         | 9,007          | 5,910          | 186,055        | 1,910            |
| FL    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 69,972           | 146           | 44,480         | 16,265         | 14,827         | 38,225         | 4,473            |
| FL    | 2009              | 03    | FUEL COMB. OTHER               | 33,014           | 100           | 10,800         | 7,555          | 7,174          | 19,882         | 10,907           |
| FL    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 901              | 1,231         | 2,461          | 1,908          | 1,526          | 34,961         | 3,821            |
| FL    | 2009              | 05    | METALS PROCESSING              | 1,545            | 1             | 176            | 361            | 251            | 993            | 82               |
| FL    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 1,190            | 0             | 612            | 304            | 156            | 519            | 748              |
| FL    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 18,593           | 26            | 13,521         | 33,084         | 19,357         | 6,881          | 26,413           |
| FL    | 2009              | 08    | SOLVENT UTILIZATION            | 0                | 0             | 1              | 132            | 113            | 0              | 319,723          |
| FL    | 2009              | 09    | STORAGE & TRANSPORT            | 187              | 0             | 621            | 1,661          | 727            | 50             | 83,880           |
| FL    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 177,953          | 342           | 6,251          | 22,971         | 22,364         | 698            | 17,241           |
| FL    | 2009              | 11    | HIGHWAY VEHICLES               | 3,308,863        | 21,549        | 312,321        | 9,801          | 6,104          | 2,584          | 336,707          |
| FL    | 2009              | 12    | OFF-HIGHWAY                    | 2,104,920        | 148           | 163,794        | 15,613         | 14,866         | 8,967          | 209,543          |
| FL    | 2009              | 14    | MISCELLANEOUS                  | 764,004          | 41,471        | 15,075         | 557,331        | 120,796        | 4,129          | 41,290           |
|       | <b>2009 Total</b> |       |                                | <b>6,596,484</b> | <b>66,874</b> | <b>707,273</b> | <b>687,353</b> | <b>223,192</b> | <b>406,888</b> | <b>1,061,801</b> |
| FL    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 85,495           | 2,976         | 87,645         | 12,791         | 9,417          | 194,028        | 3,047            |
| FL    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 77,465           | 156           | 48,879         | 17,876         | 16,324         | 37,205         | 4,894            |
| FL    | 2018              | 03    | FUEL COMB. OTHER               | 27,094           | 110           | 12,356         | 7,255          | 6,853          | 20,975         | 8,879            |
| FL    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 1,200            | 1,448         | 3,119          | 2,367          | 1,907          | 41,395         | 4,739            |
| FL    | 2018              | 05    | METALS PROCESSING              | 1,973            | 2             | 225            | 466            | 323            | 1,325          | 106              |
| FL    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 1,513            | 0             | 778            | 387            | 198            | 659            | 918              |
| FL    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 20,748           | 35            | 15,855         | 39,842         | 23,289         | 7,741          | 29,716           |
| FL    | 2018              | 08    | SOLVENT UTILIZATION            | 0                | 0             | 1              | 158            | 135            | 0              | 387,657          |
| FL    | 2018              | 09    | STORAGE & TRANSPORT            | 226              | 0             | 690            | 2,004          | 877            | 58             | 87,732           |
| FL    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 180,730          | 418           | 6,486          | 24,140         | 23,427         | 769            | 18,335           |
| FL    | 2018              | 11    | HIGHWAY VEHICLES               | 2,554,160        | 26,163        | 150,180        | 8,268          | 4,038          | 2,533          | 222,303          |
| FL    | 2018              | 12    | OFF-HIGHWAY                    | 2,323,327        | 171           | 127,885        | 12,497         | 11,868         | 7,536          | 183,452          |
| FL    | 2018              | 14    | MISCELLANEOUS                  | 763,701          | 43,251        | 15,068         | 628,984        | 127,364        | 4,129          | 41,338           |
|       | <b>2018 Total</b> |       |                                | <b>6,037,633</b> | <b>74,728</b> | <b>469,168</b> | <b>757,033</b> | <b>226,019</b> | <b>318,353</b> | <b>993,116</b>   |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3            | NOX            | PM10             | PM2.5          | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|----------------|----------------|------------------|----------------|----------------|----------------|
| GA    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 9,712            | 83             | 147,517        | 11,224           | 4,939          | 514,952        | 1,244          |
| GA    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 59,492           | 27             | 53,039         | 12,037           | 7,886          | 88,791         | 3,956          |
| GA    | 2002              | 03    | FUEL COMB. OTHER               | 63,314           | 17             | 14,465         | 10,142           | 10,057         | 10,740         | 27,226         |
| GA    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 5,387            | 920            | 2,277          | 391              | 305            | 2,721          | 2,668          |
| GA    | 2002              | 05    | METALS PROCESSING              | 330              | 0              | 60             | 147              | 94             | 0              | 70             |
| GA    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 41               | 0              | 3              | 69               | 44             | 68             | 175            |
| GA    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 27,960           | 2,666          | 12,215         | 39,630           | 13,073         | 8,701          | 26,999         |
| GA    | 2002              | 08    | SOLVENT UTILIZATION            | 4                | 0              | 22             | 13               | 13             | 0              | 234,744        |
| GA    | 2002              | 09    | STORAGE & TRANSPORT            | 39               | 0              | 6              | 583              | 360            | 0              | 26,334         |
| GA    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 146,183          | 16             | 5,164          | 23,422           | 22,506         | 312            | 15,003         |
| GA    | 2002              | 11    | HIGHWAY VEHICLES               | 2,735,968        | 10,546         | 307,732        | 7,246            | 5,168          | 12,184         | 283,421        |
| GA    | 2002              | 12    | OFF-HIGHWAY                    | 791,158          | 60             | 97,961         | 8,618            | 8,226          | 9,005          | 85,965         |
| GA    | 2002              | 14    | MISCELLANEOUS                  | 590,400          | 83,458         | 12,308         | 695,723          | 124,142        | 3,372          | 29,640         |
|       | <b>2002 Total</b> |       |                                | <b>4,429,989</b> | <b>97,795</b>  | <b>652,769</b> | <b>809,244</b>   | <b>196,815</b> | <b>650,846</b> | <b>737,444</b> |
| GA    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 23,721           | 686            | 98,497         | 17,891           | 10,907         | 408,679        | 2,314          |
| GA    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 63,067           | 28             | 53,726         | 11,206           | 7,390          | 89,850         | 4,163          |
| GA    | 2009              | 03    | FUEL COMB. OTHER               | 45,184           | 17             | 15,347         | 8,496            | 8,400          | 10,981         | 15,683         |
| GA    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 6,044            | 1,032          | 2,531          | 436              | 341            | 2,743          | 2,814          |
| GA    | 2009              | 05    | METALS PROCESSING              | 363              | 0              | 61             | 159              | 100            | 0              | 47             |
| GA    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 50               | 0              | 4              | 83               | 54             | 82             | 154            |
| GA    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 29,976           | 2,902          | 12,528         | 45,339           | 14,758         | 7,662          | 28,441         |
| GA    | 2009              | 08    | SOLVENT UTILIZATION            | 4                | 0              | 25             | 14               | 14             | 0              | 216,248        |
| GA    | 2009              | 09    | STORAGE & TRANSPORT            | 45               | 0              | 7              | 649              | 401            | 0              | 27,821         |
| GA    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 218,460          | 18             | 7,419          | 31,955           | 30,900         | 360            | 18,711         |
| GA    | 2009              | 11    | HIGHWAY VEHICLES               | 1,983,803        | 12,687         | 209,349        | 6,072            | 3,840          | 1,585          | 195,125        |
| GA    | 2009              | 12    | OFF-HIGHWAY                    | 882,970          | 68             | 85,733         | 7,521            | 7,175          | 2,725          | 67,686         |
| GA    | 2009              | 14    | MISCELLANEOUS                  | 515,329          | 91,406         | 10,637         | 765,043          | 125,665        | 2,914          | 26,388         |
|       | <b>2009 Total</b> |       |                                | <b>3,769,016</b> | <b>108,844</b> | <b>495,864</b> | <b>894,865</b>   | <b>209,944</b> | <b>527,582</b> | <b>605,595</b> |
| GA    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 44,269           | 1,677          | 69,856         | 20,732           | 13,881         | 68,515         | 2,816          |
| GA    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 67,067           | 30             | 57,232         | 11,755           | 7,769          | 94,403         | 4,424          |
| GA    | 2018              | 03    | FUEL COMB. OTHER               | 39,440           | 17             | 17,801         | 7,722            | 7,622          | 11,958         | 11,482         |
| GA    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 7,076            | 1,208          | 2,982          | 517              | 405            | 3,436          | 3,524          |
| GA    | 2018              | 05    | METALS PROCESSING              | 421              | 0              | 76             | 185              | 118            | 0              | 55             |
| GA    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 63               | 0              | 5              | 105              | 68             | 104            | 191            |
| GA    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 33,611           | 3,559          | 14,460         | 55,130           | 17,899         | 8,748          | 33,333         |
| GA    | 2018              | 08    | SOLVENT UTILIZATION            | 5                | 0              | 30             | 22               | 22             | 0              | 264,326        |
| GA    | 2018              | 09    | STORAGE & TRANSPORT            | 54               | 0              | 9              | 764              | 470            | 0              | 29,409         |
| GA    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 235,690          | 22             | 8,120          | 35,280           | 34,038         | 423            | 20,411         |
| GA    | 2018              | 11    | HIGHWAY VEHICLES               | 1,476,981        | 14,873         | 102,179        | 4,844            | 2,380          | 1,457          | 109,763        |
| GA    | 2018              | 12    | OFF-HIGHWAY                    | 973,872          | 79             | 64,579         | 6,015            | 5,730          | 1,709          | 56,761         |
| GA    | 2018              | 14    | MISCELLANEOUS                  | 515,220          | 102,075        | 10,635         | 859,835          | 134,730        | 2,914          | 26,368         |
|       | <b>2018 Total</b> |       |                                | <b>3,393,769</b> | <b>123,540</b> | <b>347,964</b> | <b>1,002,907</b> | <b>225,133</b> | <b>193,668</b> | <b>562,862</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5         | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|---------------|----------------|----------------|
| KY    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 12,619           | 326           | 198,817        | 4,701          | 2,802         | 484,057        | 1,487          |
| KY    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 14,110           | 182           | 60,674         | 2,155          | 1,463         | 41,825         | 1,565          |
| KY    | 2002              | 03    | FUEL COMB. OTHER               | 40,806           | 55            | 4,997          | 7,679          | 7,352         | 9,647          | 12,711         |
| KY    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 176              | 214           | 296            | 774            | 581           | 2,345          | 3,462          |
| KY    | 2002              | 05    | METALS PROCESSING              | 89,197           | 6             | 1,082          | 3,396          | 2,720         | 12,328         | 1,508          |
| KY    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 4,304            | 335           | 2,519          | 308            | 205           | 5,747          | 2,895          |
| KY    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 6,493            | 78            | 6,518          | 31,429         | 10,394        | 3,333          | 25,388         |
| KY    | 2002              | 08    | SOLVENT UTILIZATION            | 0                | 10            | 9              | 317            | 241           | 1              | 61,834         |
| KY    | 2002              | 09    | STORAGE & TRANSPORT            | 33               | 8             | 15             | 1,920          | 1,177         | 3              | 18,853         |
| KY    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 20,622           | 8             | 1,768          | 7,229          | 6,476         | 606            | 7,927          |
| KY    | 2002              | 11    | HIGHWAY VEHICLES               | 1,230,148        | 5,055         | 156,417        | 3,723          | 2,697         | 6,308          | 103,503        |
| KY    | 2002              | 12    | OFF-HIGHWAY                    | 325,993          | 31            | 104,571        | 6,425          | 6,046         | 14,043         | 44,805         |
| KY    | 2002              | 14    | MISCELLANEOUS                  | 9,651            | 50,953        | 209            | 195,827        | 26,941        | 51             | 4,476          |
|       | <b>2002 Total</b> |       |                                | <b>1,754,151</b> | <b>57,261</b> | <b>537,890</b> | <b>265,880</b> | <b>69,094</b> | <b>580,293</b> | <b>290,414</b> |
| KY    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 15,812           | 400           | 97,263         | 6,463          | 4,279         | 271,669        | 1,369          |
| KY    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 14,986           | 195           | 61,683         | 2,105          | 1,456         | 42,433         | 1,476          |
| KY    | 2009              | 03    | FUEL COMB. OTHER               | 30,045           | 54            | 5,178          | 7,035          | 6,725         | 10,123         | 9,148          |
| KY    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 179              | 249           | 300            | 851            | 633           | 2,384          | 3,635          |
| KY    | 2009              | 05    | METALS PROCESSING              | 99,428           | 7             | 1,156          | 3,246          | 2,550         | 13,735         | 1,772          |
| KY    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 4,818            | 377           | 2,828          | 344            | 230           | 6,460          | 3,052          |
| KY    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 7,212            | 84            | 6,674          | 32,194         | 10,912        | 3,634          | 27,548         |
| KY    | 2009              | 08    | SOLVENT UTILIZATION            | 0                | 10            | 11             | 371            | 283           | 1              | 62,595         |
| KY    | 2009              | 09    | STORAGE & TRANSPORT            | 38               | 9             | 18             | 2,064          | 1,268         | 3              | 20,038         |
| KY    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 22,388           | 9             | 1,979          | 7,770          | 6,925         | 733            | 7,725          |
| KY    | 2009              | 11    | HIGHWAY VEHICLES               | 963,762          | 5,796         | 101,182        | 2,976          | 1,920         | 759            | 73,942         |
| KY    | 2009              | 12    | OFF-HIGHWAY                    | 357,800          | 34            | 94,752         | 5,544          | 5,203         | 9,180          | 38,558         |
| KY    | 2009              | 14    | MISCELLANEOUS                  | 32,627           | 52,915        | 702            | 206,463        | 29,601        | 187            | 6,335          |
|       | <b>2009 Total</b> |       |                                | <b>1,549,096</b> | <b>60,139</b> | <b>373,725</b> | <b>277,427</b> | <b>71,984</b> | <b>361,300</b> | <b>257,193</b> |
| KY    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 17,144           | 476           | 64,378         | 6,694          | 4,434         | 222,102        | 1,426          |
| KY    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 15,692           | 205           | 64,533         | 2,203          | 1,528         | 43,772         | 1,555          |
| KY    | 2018              | 03    | FUEL COMB. OTHER               | 24,764           | 53            | 5,550          | 6,469          | 6,169         | 9,947          | 7,479          |
| KY    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 219              | 317           | 367            | 1,054          | 781           | 2,884          | 4,384          |
| KY    | 2018              | 05    | METALS PROCESSING              | 114,470          | 9             | 1,508          | 3,898          | 3,065         | 15,800         | 2,343          |
| KY    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 5,495            | 434           | 3,244          | 392            | 262           | 7,426          | 3,394          |
| KY    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 8,303            | 93            | 7,872          | 35,349         | 12,377        | 4,141          | 31,394         |
| KY    | 2018              | 08    | SOLVENT UTILIZATION            | 0                | 12            | 14             | 464            | 352           | 1              | 73,525         |
| KY    | 2018              | 09    | STORAGE & TRANSPORT            | 44               | 10            | 21             | 2,408          | 1,481         | 4              | 21,196         |
| KY    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 24,677           | 11            | 2,256          | 8,481          | 7,518         | 894            | 8,392          |
| KY    | 2018              | 11    | HIGHWAY VEHICLES               | 807,536          | 7,811         | 52,263         | 2,580          | 1,272         | 763            | 47,066         |
| KY    | 2018              | 12    | OFF-HIGHWAY                    | 381,215          | 40            | 79,392         | 4,556          | 4,256         | 8,592          | 30,920         |
| KY    | 2018              | 14    | MISCELLANEOUS                  | 33,931           | 55,118        | 729            | 218,725        | 30,626        | 196            | 7,254          |
|       | <b>2018 Total</b> |       |                                | <b>1,433,491</b> | <b>64,588</b> | <b>282,127</b> | <b>293,273</b> | <b>74,122</b> | <b>316,520</b> | <b>240,329</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5         | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|---------------|----------------|----------------|
| MS    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 5,303            | 190           | 43,135         | 1,633          | 1,138         | 67,429         | 648            |
| MS    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 22,711           | 28            | 48,699         | 5,011          | 3,638         | 9,746          | 8,024          |
| MS    | 2002              | 03    | FUEL COMB. OTHER               | 36,752           | 34            | 4,502          | 5,445          | 5,414         | 789            | 22,923         |
| MS    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 15,410           | 361           | 1,725          | 849            | 440           | 1,663          | 2,375          |
| MS    | 2002              | 05    | METALS PROCESSING              | 1,031            | 0             | 115            | 122            | 58            | 36             | 371            |
| MS    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 975              | 20            | 1,187          | 790            | 335           | 15,560         | 20,788         |
| MS    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 13,884           | 747           | 9,219          | 27,617         | 8,051         | 8,866          | 15,525         |
| MS    | 2002              | 08    | SOLVENT UTILIZATION            | 45               | 7             | 105            | 219            | 178           | 1              | 80,760         |
| MS    | 2002              | 09    | STORAGE & TRANSPORT            | 74               | 0             | 80             | 124            | 38            | 40             | 23,327         |
| MS    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 1,414            | 9             | 89             | 447            | 324           | 31             | 886            |
| MS    | 2002              | 11    | HIGHWAY VEHICLES               | 864,290          | 3,585         | 111,914        | 2,859          | 2,112         | 4,614          | 87,672         |
| MS    | 2002              | 12    | OFF-HIGHWAY                    | 236,752          | 23            | 88,787         | 5,010          | 4,690         | 11,315         | 41,081         |
| MS    | 2002              | 14    | MISCELLANEOUS                  | 13,386           | 58,741        | 288            | 323,511        | 42,932        | 78             | 654            |
|       | <b>2002 Total</b> |       |                                | <b>1,212,028</b> | <b>63,748</b> | <b>309,845</b> | <b>373,637</b> | <b>69,348</b> | <b>120,166</b> | <b>305,035</b> |
| MS    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 7,116            | 334           | 47,276         | 5,182          | 4,996         | 76,646         | 564            |
| MS    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 24,607           | 30            | 44,095         | 3,728          | 2,787         | 7,388          | 8,007          |
| MS    | 2009              | 03    | FUEL COMB. OTHER               | 26,024           | 33            | 4,514          | 5,278          | 5,245         | 751            | 17,445         |
| MS    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 16,141           | 405           | 1,955          | 941            | 488           | 1,880          | 2,614          |
| MS    | 2009              | 05    | METALS PROCESSING              | 1,098            | 0             | 128            | 129            | 62            | 37             | 402            |
| MS    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 1,101            | 23            | 1,262          | 894            | 379           | 7,926          | 13,317         |
| MS    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 14,181           | 197           | 8,376          | 31,380         | 8,628         | 8,254          | 16,282         |
| MS    | 2009              | 08    | SOLVENT UTILIZATION            | 50               | 8             | 118            | 239            | 194           | 1              | 80,393         |
| MS    | 2009              | 09    | STORAGE & TRANSPORT            | 92               | 0             | 100            | 172            | 59            | 49             | 23,494         |
| MS    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 1,486            | 10            | 95             | 473            | 339           | 32             | 743            |
| MS    | 2009              | 11    | HIGHWAY VEHICLES               | 609,972          | 4,035         | 70,743         | 2,275          | 1,508         | 537            | 52,107         |
| MS    | 2009              | 12    | OFF-HIGHWAY                    | 257,453          | 25            | 80,567         | 4,270          | 3,985         | 7,191          | 36,197         |
| MS    | 2009              | 14    | MISCELLANEOUS                  | 48,314           | 63,886        | 1,037          | 337,018        | 46,695        | 283            | 2,295          |
|       | <b>2009 Total</b> |       |                                | <b>1,007,634</b> | <b>68,987</b> | <b>260,266</b> | <b>391,978</b> | <b>75,365</b> | <b>110,975</b> | <b>253,858</b> |
| MS    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 17,348           | 827           | 21,535         | 7,412          | 7,252         | 15,213         | 1,274          |
| MS    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 26,082           | 33            | 46,792         | 4,073          | 3,039         | 5,167          | 8,556          |
| MS    | 2018              | 03    | FUEL COMB. OTHER               | 20,900           | 32            | 4,768          | 4,964          | 4,928         | 726            | 14,670         |
| MS    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 20,175           | 475           | 2,337          | 1,132          | 588           | 2,242          | 3,290          |
| MS    | 2018              | 05    | METALS PROCESSING              | 1,357            | 0             | 167            | 160            | 79            | 48             | 461            |
| MS    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 1,267            | 26            | 1,294          | 1,010          | 430           | 8,484          | 14,407         |
| MS    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 16,267           | 216           | 9,996          | 38,492         | 10,492        | 9,657          | 20,301         |
| MS    | 2018              | 08    | SOLVENT UTILIZATION            | 60               | 9             | 141            | 301            | 244           | 1              | 98,354         |
| MS    | 2018              | 09    | STORAGE & TRANSPORT            | 115              | 0             | 124            | 210            | 73            | 62             | 24,537         |
| MS    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 1,638            | 12            | 114            | 533            | 372           | 34             | 870            |
| MS    | 2018              | 11    | HIGHWAY VEHICLES               | 445,493          | 4,566         | 30,619         | 1,624          | 819           | 440            | 31,616         |
| MS    | 2018              | 12    | OFF-HIGHWAY                    | 270,726          | 29            | 68,252         | 3,452          | 3,203         | 6,638          | 28,842         |
| MS    | 2018              | 14    | MISCELLANEOUS                  | 50,160           | 70,096        | 1,076          | 352,321        | 47,869        | 294            | 2,377          |
|       | <b>2018 Total</b> |       |                                | <b>871,587</b>   | <b>76,321</b> | <b>187,215</b> | <b>415,685</b> | <b>79,388</b> | <b>49,006</b>  | <b>249,556</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3            | NOX            | PM10           | PM2.5          | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| NC    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 13,885           | 54             | 151,850        | 22,754         | 16,498         | 477,990        | 988            |
| NC    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 23,578           | 301            | 48,590         | 5,596          | 4,334          | 33,395         | 2,540          |
| NC    | 2002              | 03    | FUEL COMB. OTHER               | 217,008          | 2,318          | 16,460         | 31,777         | 26,746         | 3,971          | 87,985         |
| NC    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 13,952           | 535            | 859            | 866            | 538            | 5,736          | 4,313          |
| NC    | 2002              | 05    | METALS PROCESSING              | 5,876            | 60             | 201            | 564            | 467            | 1,010          | 2,512          |
| NC    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 461              | 0              | 174            | 104            | 52             | 283            | 140            |
| NC    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 8,552            | 480            | 7,380          | 25,328         | 8,924          | 3,426          | 18,025         |
| NC    | 2002              | 08    | SOLVENT UTILIZATION            | 130              | 307            | 229            | 524            | 484            | 26             | 151,383        |
| NC    | 2002              | 09    | STORAGE & TRANSPORT            | 66               | 46             | 53             | 639            | 354            | 1              | 16,120         |
| NC    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 125,528          | 247            | 7,482          | 2,239          | 2,218          | 1,666          | 15,568         |
| NC    | 2002              | 11    | HIGHWAY VEHICLES               | 2,873,992        | 9,702          | 327,329        | 6,579          | 4,623          | 12,420         | 263,766        |
| NC    | 2002              | 12    | OFF-HIGHWAY                    | 808,231          | 65             | 84,284         | 7,348          | 7,005          | 7,693          | 94,480         |
| NC    | 2002              | 14    | MISCELLANEOUS                  | 35,218           | 158,900        | 757            | 229,909        | 33,291         | 203            | 1,765          |
|       | <b>2002 Total</b> |       |                                | <b>4,126,478</b> | <b>173,014</b> | <b>645,648</b> | <b>334,226</b> | <b>105,533</b> | <b>547,821</b> | <b>659,585</b> |
| NC    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 14,942           | 445            | 66,516         | 22,152         | 15,949         | 242,286        | 954            |
| NC    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 24,871           | 312            | 38,161         | 5,159          | 3,871          | 30,788         | 2,510          |
| NC    | 2009              | 03    | FUEL COMB. OTHER               | 158,837          | 2,723          | 18,441         | 25,334         | 19,467         | 4,060          | 49,819         |
| NC    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 14,732           | 599            | 933            | 981            | 607            | 6,286          | 4,925          |
| NC    | 2009              | 05    | METALS PROCESSING              | 6,358            | 67             | 207            | 627            | 528            | 1,130          | 2,790          |
| NC    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 556              | 0              | 212            | 127            | 64             | 349            | 162            |
| NC    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 9,211            | 507            | 8,061          | 28,524         | 9,788          | 3,712          | 18,144         |
| NC    | 2009              | 08    | SOLVENT UTILIZATION            | 142              | 335            | 246            | 549            | 506            | 28             | 136,114        |
| NC    | 2009              | 09    | STORAGE & TRANSPORT            | 75               | 51             | 55             | 696            | 380            | 1              | 17,367         |
| NC    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 139,518          | 307            | 8,354          | 2,774          | 2,750          | 1,913          | 17,331         |
| NC    | 2009              | 11    | HIGHWAY VEHICLES               | 1,991,708        | 11,825         | 201,609        | 5,572          | 3,493          | 1,503          | 168,676        |
| NC    | 2009              | 12    | OFF-HIGHWAY                    | 887,605          | 72             | 70,997         | 6,055          | 5,760          | 1,892          | 74,056         |
| NC    | 2009              | 14    | MISCELLANEOUS                  | 96,825           | 167,131        | 2,080          | 250,912        | 49,956         | 566            | 4,648          |
|       | <b>2009 Total</b> |       |                                | <b>3,345,380</b> | <b>184,373</b> | <b>415,874</b> | <b>349,461</b> | <b>113,118</b> | <b>294,514</b> | <b>497,496</b> |
| NC    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 19,870           | 663            | 61,103         | 35,275         | 28,137         | 120,165        | 1,302          |
| NC    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 26,873           | 341            | 40,898         | 5,594          | 4,222          | 32,507         | 2,702          |
| NC    | 2018              | 03    | FUEL COMB. OTHER               | 131,365          | 2,857          | 20,027         | 21,847         | 16,231         | 4,050          | 34,104         |
| NC    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 18,463           | 702            | 1,105          | 1,175          | 726            | 7,414          | 6,113          |
| NC    | 2018              | 05    | METALS PROCESSING              | 7,576            | 76             | 255            | 771            | 657            | 1,335          | 3,516          |
| NC    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 712              | 0              | 272            | 162            | 82             | 448            | 207            |
| NC    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 10,675           | 559            | 9,259          | 34,339         | 11,601         | 4,357          | 20,978         |
| NC    | 2018              | 08    | SOLVENT UTILIZATION            | 169              | 375            | 277            | 588            | 540            | 31             | 152,979        |
| NC    | 2018              | 09    | STORAGE & TRANSPORT            | 91               | 59             | 67             | 808            | 430            | 2              | 19,511         |
| NC    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 156,599          | 387            | 9,456          | 3,502          | 3,474          | 2,234          | 19,789         |
| NC    | 2018              | 11    | HIGHWAY VEHICLES               | 1,362,214        | 14,065         | 87,791         | 4,392          | 2,123          | 1,481          | 101,099        |
| NC    | 2018              | 12    | OFF-HIGHWAY                    | 960,709          | 83             | 49,046         | 4,298          | 4,069          | 905            | 61,327         |
| NC    | 2018              | 14    | MISCELLANEOUS                  | 111,705          | 177,474        | 2,399          | 273,030        | 54,376         | 655            | 5,333          |
|       | <b>2018 Total</b> |       |                                | <b>2,807,022</b> | <b>197,643</b> | <b>281,955</b> | <b>385,780</b> | <b>126,667</b> | <b>175,583</b> | <b>428,960</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5          | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| SC    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 6,990            | 142           | 88,241         | 21,400         | 17,154         | 206,399        | 470            |
| SC    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 31,771           | 97            | 38,081         | 5,308          | 3,641          | 44,958         | 1,338          |
| SC    | 2002              | 03    | FUEL COMB. OTHER               | 75,800           | 65            | 4,367          | 6,261          | 6,166          | 4,318          | 49,171         |
| SC    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 2,526            | 173           | 25             | 501            | 318            | 59             | 8,784          |
| SC    | 2002              | 05    | METALS PROCESSING              | 13,833           | 0             | 450            | 639            | 408            | 4,160          | 660            |
| SC    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 248              | 0             | 283            | 120            | 71             | 170            | 114            |
| SC    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 9,502            | 1,237         | 15,145         | 15,224         | 6,981          | 12,128         | 16,342         |
| SC    | 2002              | 08    | SOLVENT UTILIZATION            | 0                | 1             | 1              | 78             | 60             | 0              | 88,878         |
| SC    | 2002              | 09    | STORAGE & TRANSPORT            | 10               | 0             | 4              | 1,025          | 626            | 0              | 21,009         |
| SC    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 44,844           | 10            | 3,380          | 6,852          | 6,321          | 625            | 13,708         |
| SC    | 2002              | 11    | HIGHWAY VEHICLES               | 1,241,359        | 4,694         | 140,489        | 3,452          | 2,501          | 5,972          | 116,163        |
| SC    | 2002              | 12    | OFF-HIGHWAY                    | 413,964          | 33            | 50,249         | 4,152          | 3,945          | 4,866          | 55,016         |
| SC    | 2002              | 14    | MISCELLANEOUS                  | 239,836          | 28,975        | 4,678          | 264,959        | 48,898         | 1,281          | 13,655         |
|       | <b>2002 Total</b> |       |                                | <b>2,080,683</b> | <b>35,426</b> | <b>345,395</b> | <b>329,971</b> | <b>97,090</b>  | <b>284,936</b> | <b>385,308</b> |
| SC    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 11,643           | 370           | 48,668         | 20,041         | 16,548         | 129,122        | 723            |
| SC    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 32,661           | 105           | 35,011         | 2,978          | 2,087          | 36,660         | 1,374          |
| SC    | 2009              | 03    | FUEL COMB. OTHER               | 49,914           | 63            | 4,551          | 5,264          | 5,183          | 4,359          | 25,073         |
| SC    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 2,798            | 173           | 26             | 543            | 345            | 60             | 7,409          |
| SC    | 2009              | 05    | METALS PROCESSING              | 15,632           | 0             | 448            | 631            | 378            | 4,856          | 663            |
| SC    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 302              | 0             | 340            | 145            | 86             | 200            | 131            |
| SC    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 10,241           | 1,403         | 15,069         | 18,201         | 7,997          | 13,443         | 15,425         |
| SC    | 2009              | 08    | SOLVENT UTILIZATION            | 1                | 1             | 1              | 75             | 58             | 0              | 94,590         |
| SC    | 2009              | 09    | STORAGE & TRANSPORT            | 13               | 0             | 5              | 569            | 352            | 0              | 21,987         |
| SC    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 70,379           | 11            | 4,215          | 9,526          | 8,977          | 666            | 15,998         |
| SC    | 2009              | 11    | HIGHWAY VEHICLES               | 889,957          | 5,523         | 92,499         | 2,862          | 1,855          | 721            | 72,603         |
| SC    | 2009              | 12    | OFF-HIGHWAY                    | 448,625          | 36            | 43,235         | 3,471          | 3,294          | 1,701          | 43,061         |
| SC    | 2009              | 14    | MISCELLANEOUS                  | 250,690          | 31,416        | 4,962          | 282,480        | 51,151         | 1,359          | 13,906         |
|       | <b>2009 Total</b> |       |                                | <b>1,782,856</b> | <b>39,101</b> | <b>249,028</b> | <b>346,786</b> | <b>98,312</b>  | <b>193,147</b> | <b>312,943</b> |
| SC    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 14,975           | 625           | 51,751         | 27,640         | 23,794         | 95,377         | 931            |
| SC    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 35,532           | 113           | 36,645         | 3,683          | 2,548          | 38,548         | 1,482          |
| SC    | 2018              | 03    | FUEL COMB. OTHER               | 39,627           | 65            | 5,135          | 4,791          | 4,711          | 4,469          | 16,391         |
| SC    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 3,296            | 212           | 32             | 664            | 423            | 74             | 9,107          |
| SC    | 2018              | 05    | METALS PROCESSING              | 18,853           | 0             | 585            | 773            | 476            | 5,920          | 867            |
| SC    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 389              | 0             | 438            | 186            | 110            | 258            | 166            |
| SC    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 12,136           | 1,566         | 17,507         | 20,128         | 8,981          | 15,863         | 18,290         |
| SC    | 2018              | 08    | SOLVENT UTILIZATION            | 1                | 1             | 1              | 93             | 72             | 0              | 119,154        |
| SC    | 2018              | 09    | STORAGE & TRANSPORT            | 16               | 0             | 6              | 1,380          | 842            | 0              | 22,739         |
| SC    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 73,403           | 13            | 4,512          | 10,038         | 9,443          | 735            | 17,167         |
| SC    | 2018              | 11    | HIGHWAY VEHICLES               | 663,493          | 6,473         | 43,490         | 2,184          | 1,087          | 643            | 46,301         |
| SC    | 2018              | 12    | OFF-HIGHWAY                    | 481,332          | 41            | 31,758         | 2,617          | 2,474          | 1,198          | 36,131         |
| SC    | 2018              | 14    | MISCELLANEOUS                  | 250,637          | 34,345        | 4,961          | 306,342        | 53,367         | 1,359          | 13,896         |
|       | <b>2018 Total</b> |       |                                | <b>1,593,690</b> | <b>43,455</b> | <b>196,820</b> | <b>380,519</b> | <b>108,327</b> | <b>164,444</b> | <b>302,623</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5          | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| TN    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 7,084            | 204           | 157,307        | 14,640         | 12,166         | 334,151        | 926            |
| TN    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 15,257           | 6             | 44,510         | 8,015          | 6,649          | 74,146         | 2,021          |
| TN    | 2002              | 03    | FUEL COMB. OTHER               | 77,857           | 25            | 15,568         | 7,967          | 7,549          | 16,253         | 18,346         |
| TN    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 36,920           | 1,518         | 1,772          | 3,246          | 2,201          | 6,516          | 24,047         |
| TN    | 2002              | 05    | METALS PROCESSING              | 41,371           | 14            | 1,182          | 7,620          | 7,030          | 5,818          | 6,898          |
| TN    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 543              | 0             | 331            | 314            | 243            | 383            | 1,850          |
| TN    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 9,420            | 44            | 11,794         | 30,484         | 12,867         | 5,845          | 27,336         |
| TN    | 2002              | 08    | SOLVENT UTILIZATION            | 275              | 1             | 5,066          | 2,103          | 1,818          | 58             | 110,872        |
| TN    | 2002              | 09    | STORAGE & TRANSPORT            | 22               | 24            | 105            | 1,249          | 736            | 134            | 21,962         |
| TN    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 22,143           | 31            | 1,839          | 7,068          | 6,469          | 349            | 15,505         |
| TN    | 2002              | 11    | HIGHWAY VEHICLES               | 1,917,842        | 6,625         | 238,577        | 5,371          | 3,949          | 9,226          | 179,807        |
| TN    | 2002              | 12    | OFF-HIGHWAY                    | 505,163          | 43            | 96,827         | 6,819          | 6,458          | 10,441         | 66,450         |
| TN    | 2002              | 14    | MISCELLANEOUS                  | 5,003            | 34,292        | 100            | 179,440        | 24,708         | 25             | 1,978          |
|       | <b>2002 Total</b> |       |                                | <b>2,638,901</b> | <b>42,825</b> | <b>574,980</b> | <b>274,337</b> | <b>92,841</b>  | <b>463,345</b> | <b>477,997</b> |
| TN    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 7,214            | 227           | 66,405         | 15,608         | 13,092         | 255,410        | 932            |
| TN    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 15,536           | 6             | 37,046         | 7,157          | 5,973          | 63,076         | 1,773          |
| TN    | 2009              | 03    | FUEL COMB. OTHER               | 61,442           | 27            | 14,792         | 7,134          | 6,786          | 16,955         | 12,781         |
| TN    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 35,440           | 1,719         | 1,958          | 3,369          | 2,271          | 1,949          | 15,492         |
| TN    | 2009              | 05    | METALS PROCESSING              | 45,183           | 15            | 1,245          | 7,337          | 6,823          | 6,537          | 7,671          |
| TN    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 572              | 0             | 328            | 355            | 276            | 263            | 1,401          |
| TN    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 9,911            | 62            | 12,635         | 32,599         | 13,687         | 6,240          | 28,338         |
| TN    | 2009              | 08    | SOLVENT UTILIZATION            | 309              | 1             | 5,983          | 2,431          | 2,095          | 65             | 112,264        |
| TN    | 2009              | 09    | STORAGE & TRANSPORT            | 26               | 31            | 12             | 1,218          | 733            | 42             | 23,686         |
| TN    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 23,810           | 35            | 1,993          | 7,618          | 6,968          | 393            | 14,922         |
| TN    | 2009              | 11    | HIGHWAY VEHICLES               | 1,338,016        | 7,782         | 151,912        | 4,206          | 2,751          | 1,076          | 115,181        |
| TN    | 2009              | 12    | OFF-HIGHWAY                    | 554,121          | 48            | 86,641         | 5,877          | 5,557          | 5,651          | 55,358         |
| TN    | 2009              | 14    | MISCELLANEOUS                  | 17,921           | 35,200        | 379            | 192,464        | 26,830         | 102            | 2,814          |
|       | <b>2009 Total</b> |       |                                | <b>2,109,500</b> | <b>45,152</b> | <b>381,331</b> | <b>287,371</b> | <b>93,842</b>  | <b>357,760</b> | <b>392,612</b> |
| TN    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 7,723            | 241           | 31,715         | 15,941         | 13,387         | 112,672        | 976            |
| TN    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 16,702           | 7             | 38,028         | 7,648          | 6,408          | 47,982         | 1,905          |
| TN    | 2018              | 03    | FUEL COMB. OTHER               | 54,486           | 30            | 15,502         | 6,757          | 6,412          | 18,091         | 10,269         |
| TN    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 45,455           | 2,053         | 2,424          | 4,263          | 2,888          | 6,563          | 19,950         |
| TN    | 2018              | 05    | METALS PROCESSING              | 52,834           | 17            | 1,589          | 9,579          | 8,953          | 7,790          | 9,950          |
| TN    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 665              | 0             | 378            | 414            | 324            | 309            | 1,598          |
| TN    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 10,946           | 88            | 14,157         | 38,196         | 16,242         | 7,286          | 35,126         |
| TN    | 2018              | 08    | SOLVENT UTILIZATION            | 380              | 1             | 7,675          | 3,154          | 2,717          | 79             | 140,760        |
| TN    | 2018              | 09    | STORAGE & TRANSPORT            | 33               | 41            | 14             | 1,571          | 939            | 49             | 25,491         |
| TN    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 26,712           | 42            | 2,326          | 8,562          | 7,828          | 468            | 17,530         |
| TN    | 2018              | 11    | HIGHWAY VEHICLES               | 976,634          | 9,021         | 69,385         | 3,092          | 1,544          | 948            | 67,324         |
| TN    | 2018              | 12    | OFF-HIGHWAY                    | 593,100          | 55            | 70,226         | 4,672          | 4,403          | 5,207          | 45,084         |
| TN    | 2018              | 14    | MISCELLANEOUS                  | 19,210           | 36,213        | 408            | 209,058        | 28,209         | 111            | 3,293          |
|       | <b>2018 Total</b> |       |                                | <b>1,804,879</b> | <b>47,809</b> | <b>253,828</b> | <b>312,906</b> | <b>100,255</b> | <b>207,555</b> | <b>379,257</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO               | NH3           | NOX            | PM10           | PM2.5         | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|------------------|---------------|----------------|----------------|---------------|----------------|----------------|
| VA    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 6,892            | 127           | 86,886         | 3,960          | 2,606         | 241,204        | 754            |
| VA    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 64,398           | 100           | 75,831         | 18,480         | 8,453         | 137,451        | 5,332          |
| VA    | 2002              | 03    | FUEL COMB. OTHER               | 98,788           | 13            | 15,648         | 11,572         | 11,236        | 5,508          | 54,496         |
| VA    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 321              | 2,158         | 8,062          | 449            | 393           | 2,126          | 1,530          |
| VA    | 2002              | 05    | METALS PROCESSING              | 3,580            | 0             | 937            | 1,575          | 1,349         | 5,251          | 513            |
| VA    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 23,384           | 0             | 182            | 255            | 153           | 170            | 501            |
| VA    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 12,002           | 726           | 9,279          | 33,409         | 9,795         | 17,702         | 13,086         |
| VA    | 2002              | 08    | SOLVENT UTILIZATION            | 0                | 4             | 0              | 225            | 210           | 2              | 111,511        |
| VA    | 2002              | 09    | STORAGE & TRANSPORT            | 16               | 7             | 11             | 745            | 505           | 0              | 26,121         |
| VA    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 16,566           | 109           | 1,866          | 3,152          | 1,277         | 1,581          | 4,065          |
| VA    | 2002              | 11    | HIGHWAY VEHICLES               | 2,163,259        | 7,852         | 222,374        | 4,549          | 3,102         | 8,294          | 159,790        |
| VA    | 2002              | 12    | OFF-HIGHWAY                    | 660,105          | 48            | 63,219         | 8,728          | 8,288         | 8,663          | 74,866         |
| VA    | 2002              | 14    | MISCELLANEOUS                  | 16,238           | 43,961        | 350            | 182,486        | 22,086        | 92             | 848            |
|       | <b>2002 Total</b> |       |                                | <b>3,065,551</b> | <b>55,105</b> | <b>484,646</b> | <b>269,585</b> | <b>69,453</b> | <b>428,046</b> | <b>453,413</b> |
| VA    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 12,535           | 694           | 64,358         | 5,606          | 4,165         | 174,777        | 788            |
| VA    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 67,422           | 105           | 67,263         | 18,346         | 8,345         | 131,459        | 5,483          |
| VA    | 2009              | 03    | FUEL COMB. OTHER               | 66,016           | 10            | 15,920         | 10,059         | 9,741         | 5,118          | 28,062         |
| VA    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 286              | 2,082         | 7,790          | 477            | 413           | 1,996          | 1,419          |
| VA    | 2009              | 05    | METALS PROCESSING              | 3,397            | 0             | 827            | 1,563          | 1,332         | 4,813          | 390            |
| VA    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 26,288           | 0             | 197            | 275            | 169           | 187            | 557            |
| VA    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 12,471           | 733           | 9,425          | 33,961         | 9,984         | 18,643         | 13,394         |
| VA    | 2009              | 08    | SOLVENT UTILIZATION            | 0                | 5             | 0              | 248            | 231           | 3              | 110,127        |
| VA    | 2009              | 09    | STORAGE & TRANSPORT            | 17               | 7             | 12             | 797            | 544           | 0              | 26,456         |
| VA    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 20,109           | 119           | 2,174          | 3,823          | 1,515         | 1,805          | 4,789          |
| VA    | 2009              | 11    | HIGHWAY VEHICLES               | 1,453,946        | 9,086         | 134,232        | 3,747          | 2,241         | 1,079          | 96,770         |
| VA    | 2009              | 12    | OFF-HIGHWAY                    | 726,815          | 53            | 54,993         | 7,510          | 7,136         | 1,707          | 57,009         |
| VA    | 2009              | 14    | MISCELLANEOUS                  | 21,582           | 46,719        | 464            | 198,040        | 23,990        | 124            | 1,077          |
|       | <b>2009 Total</b> |       |                                | <b>2,410,884</b> | <b>59,612</b> | <b>357,655</b> | <b>284,451</b> | <b>69,806</b> | <b>341,710</b> | <b>346,321</b> |
| VA    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 18,850           | 606           | 64,344         | 12,551         | 10,773        | 98,988         | 980            |
| VA    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 72,065           | 114           | 70,132         | 19,247         | 8,904         | 134,790        | 5,861          |
| VA    | 2018              | 03    | FUEL COMB. OTHER               | 53,171           | 14            | 17,852         | 9,427          | 9,086         | 5,230          | 18,603         |
| VA    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 338              | 2,462         | 9,211          | 579            | 502           | 1,297          | 1,708          |
| VA    | 2018              | 05    | METALS PROCESSING              | 4,034            | 0             | 1,017          | 1,861          | 1,592         | 5,374          | 469            |
| VA    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 30,284           | 0             | 228            | 315            | 194           | 217            | 642            |
| VA    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 14,029           | 877           | 10,836         | 37,553         | 11,276        | 18,088         | 15,636         |
| VA    | 2018              | 08    | SOLVENT UTILIZATION            | 0                | 6             | 0              | 314            | 293           | 3              | 127,953        |
| VA    | 2018              | 09    | STORAGE & TRANSPORT            | 21               | 8             | 15             | 949            | 648           | 0              | 27,357         |
| VA    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 24,293           | 141           | 2,595          | 4,694          | 1,828         | 2,170          | 5,821          |
| VA    | 2018              | 11    | HIGHWAY VEHICLES               | 1,075,104        | 10,624        | 63,342         | 3,212          | 1,543         | 1,043          | 61,964         |
| VA    | 2018              | 12    | OFF-HIGHWAY                    | 797,683          | 61            | 40,393         | 6,208          | 5,891         | 507            | 49,052         |
| VA    | 2018              | 14    | MISCELLANEOUS                  | 27,223           | 50,279        | 584            | 218,141        | 26,225        | 158            | 1,322          |
|       | <b>2018 Total</b> |       |                                | <b>2,117,096</b> | <b>65,192</b> | <b>280,549</b> | <b>315,051</b> | <b>78,754</b> | <b>267,867</b> | <b>317,368</b> |



## State Tier 1 Emission Totals

| State | Year              | TIER1 | TIER 1 NAME                    | CO             | NH3           | NOX            | PM10           | PM2.5         | SO2            | VOC            |
|-------|-------------------|-------|--------------------------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|
| WV    | 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 10,341         | 121           | 230,977        | 4,573          | 2,210         | 516,084        | 1,180          |
| WV    | 2002              | 02    | FUEL COMB. INDUSTRIAL          | 8,685          | 97            | 33,825         | 1,583          | 1,332         | 37,111         | 1,097          |
| WV    | 2002              | 03    | FUEL COMB. OTHER               | 29,480         | 13            | 15,220         | 3,814          | 3,683         | 3,990          | 9,275          |
| WV    | 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 50,835         | 80            | 1,627          | 950            | 831           | 9,052          | 5,755          |
| WV    | 2002              | 05    | METALS PROCESSING              | 28,837         | 143           | 1,570          | 8,749          | 7,515         | 5,619          | 1,393          |
| WV    | 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 1              | 0             | 1,086          | 475            | 475           | 7,550          | 2,163          |
| WV    | 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 2,003          | 56            | 5,347          | 18,751         | 5,567         | 2,316          | 1,803          |
| WV    | 2002              | 08    | SOLVENT UTILIZATION            | 15             | 0             | 18             | 49             | 44            | 0              | 35,989         |
| WV    | 2002              | 09    | STORAGE & TRANSPORT            | 15             | 0             | 3              | 1,952          | 947           | 0              | 12,432         |
| WV    | 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 9,395          | 8             | 599            | 4,153          | 3,731         | 100            | 5,098          |
| WV    | 2002              | 11    | HIGHWAY VEHICLES               | 533,471        | 1,908         | 58,999         | 1,381          | 995           | 2,464          | 42,174         |
| WV    | 2002              | 12    | OFF-HIGHWAY                    | 133,113        | 9             | 33,239         | 1,850          | 1,728         | 2,112          | 18,566         |
| WV    | 2002              | 14    | MISCELLANEOUS                  | 6,897          | 9,928         | 149            | 93,030         | 10,799        | 40             | 349            |
|       | <b>2002 Total</b> |       |                                | <b>813,089</b> | <b>12,364</b> | <b>382,659</b> | <b>141,310</b> | <b>39,857</b> | <b>586,436</b> | <b>137,275</b> |
| WV    | 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 11,493         | 330           | 85,476         | 5,657          | 2,940         | 268,952        | 1,361          |
| WV    | 2009              | 02    | FUEL COMB. INDUSTRIAL          | 9,529          | 104           | 27,109         | 1,432          | 1,243         | 36,964         | 979            |
| WV    | 2009              | 03    | FUEL COMB. OTHER               | 21,558         | 13            | 14,229         | 3,351          | 3,216         | 4,047          | 6,824          |
| WV    | 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 58,271         | 82            | 1,804          | 981            | 858           | 10,102         | 5,426          |
| WV    | 2009              | 05    | METALS PROCESSING              | 24,501         | 116           | 1,494          | 2,016          | 1,507         | 5,608          | 831            |
| WV    | 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 1              | 0             | 1,221          | 535            | 535           | 8,495          | 2,172          |
| WV    | 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 2,288          | 59            | 4,995          | 19,240         | 5,910         | 2,570          | 2,064          |
| WV    | 2009              | 08    | SOLVENT UTILIZATION            | 17             | 0             | 20             | 52             | 47            | 0              | 32,199         |
| WV    | 2009              | 09    | STORAGE & TRANSPORT            | 17             | 0             | 3              | 1,756          | 695           | 0              | 12,997         |
| WV    | 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 9,131          | 8             | 583            | 4,036          | 3,618         | 97             | 4,806          |
| WV    | 2009              | 11    | HIGHWAY VEHICLES               | 365,549        | 2,148         | 35,635         | 1,068          | 684           | 279            | 24,843         |
| WV    | 2009              | 12    | OFF-HIGHWAY                    | 152,862        | 11            | 30,133         | 1,640          | 1,528         | 359            | 18,069         |
| WV    | 2009              | 14    | MISCELLANEOUS                  | 4,116          | 10,574        | 89             | 93,957         | 11,002        | 23             | 219            |
|       | <b>2009 Total</b> |       |                                | <b>659,332</b> | <b>13,446</b> | <b>202,791</b> | <b>135,720</b> | <b>33,782</b> | <b>337,495</b> | <b>112,790</b> |
| WV    | 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 12,397         | 143           | 51,474         | 5,784          | 3,116         | 106,199        | 1,387          |
| WV    | 2018              | 02    | FUEL COMB. INDUSTRIAL          | 10,174         | 111           | 28,764         | 1,505          | 1,308         | 38,571         | 1,048          |
| WV    | 2018              | 03    | FUEL COMB. OTHER               | 18,891         | 16            | 17,254         | 3,160          | 3,024         | 4,065          | 6,270          |
| WV    | 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 70,252         | 99            | 2,183          | 1,181          | 1,034         | 12,196         | 6,560          |
| WV    | 2018              | 05    | METALS PROCESSING              | 28,563         | 148           | 1,929          | 2,491          | 1,887         | 6,735          | 1,087          |
| WV    | 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 1              | 0             | 1,407          | 616            | 616           | 9,786          | 2,338          |
| WV    | 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 2,756          | 68            | 5,949          | 21,363         | 6,809         | 3,101          | 2,561          |
| WV    | 2018              | 08    | SOLVENT UTILIZATION            | 20             | 0             | 24             | 61             | 55            | 0              | 37,886         |
| WV    | 2018              | 09    | STORAGE & TRANSPORT            | 19             | 0             | 4              | 2,080          | 824           | 0              | 13,394         |
| WV    | 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 9,237          | 10            | 592            | 4,116          | 3,674         | 98             | 5,153          |
| WV    | 2018              | 11    | HIGHWAY VEHICLES               | 274,804        | 2,497         | 17,247         | 819            | 405           | 253            | 16,121         |
| WV    | 2018              | 12    | OFF-HIGHWAY                    | 167,424        | 13            | 25,710         | 1,292          | 1,198         | 56             | 14,086         |
| WV    | 2018              | 14    | MISCELLANEOUS                  | 5,175          | 11,453        | 112            | 99,667         | 11,803        | 29             | 268            |
|       | <b>2018 Total</b> |       |                                | <b>599,712</b> | <b>14,557</b> | <b>152,647</b> | <b>144,134</b> | <b>35,752</b> | <b>181,088</b> | <b>108,159</b> |



**State Tier 1 Emission Totals**

|                          | CO         | NH3     | NOX       | PM10      | PM2.5     | SO2       | VOC       |
|--------------------------|------------|---------|-----------|-----------|-----------|-----------|-----------|
| <b>VISTAS 2002 Total</b> | 30,073,168 | 665,818 | 5,429,845 | 3,895,998 | 1,075,343 | 4,879,941 | 5,178,836 |
| <b>VISTAS 2009 Total</b> | 25,397,398 | 721,736 | 3,790,044 | 4,160,870 | 1,123,548 | 3,465,859 | 4,187,921 |
| <b>VISTAS 2018 Total</b> | 22,645,302 | 792,678 | 2,722,636 | 4,548,634 | 1,194,728 | 2,169,725 | 3,910,170 |



**APPENDIX D:**

**VISTAS TIER 1 EMISSION TOTALS**



## VISTAS Tier 1 Emission Totals

| Year              | TIER1 | TIER1NAME                      | CO                | NH3            | NOX              | PM10-PRI         | PM25-PRI         | SO2              | VOC              |
|-------------------|-------|--------------------------------|-------------------|----------------|------------------|------------------|------------------|------------------|------------------|
| 2002              | 01    | FUEL COMB. ELEC. UTIL.         | 141,217           | 1,799          | 1,523,445        | 113,917          | 79,269           | 3,743,723        | 12,515           |
| 2002              | 02    | FUEL COMB. INDUSTRIAL          | 371,932           | 1,204          | 499,943          | 85,357           | 59,735           | 550,866          | 32,333           |
| 2002              | 03    | FUEL COMB. OTHER               | 759,534           | 2,810          | 122,062          | 99,532           | 91,805           | 114,852          | 354,375          |
| 2002              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 131,993           | 7,093          | 20,896           | 11,114           | 7,982            | 77,450           | 63,748           |
| 2002              | 05    | METALS PROCESSING              | 223,705           | 601            | 11,801           | 32,367           | 27,778           | 49,143           | 17,306           |
| 2002              | 06    | PETROLEUM & RELATED INDUSTRIES | 44,633            | 355            | 7,204            | 2,887            | 1,863            | 53,392           | 33,374           |
| 2002              | 07    | OTHER INDUSTRIAL PROCESSES     | 156,077           | 7,520          | 114,474          | 267,980          | 97,013           | 86,736           | 196,831          |
| 2002              | 08    | SOLVENT UTILIZATION            | 687               | 331            | 5,677            | 3,805            | 3,284            | 90               | 1,288,990        |
| 2002              | 09    | STORAGE & TRANSPORT            | 610               | 85             | 1,069            | 10,968           | 6,100            | 230              | 261,959          |
| 2002              | 10    | WASTE DISPOSAL & RECYCLING     | 546,331           | 801            | 28,738           | 80,336           | 73,673           | 6,418            | 99,497           |
| 2002              | 11    | HIGHWAY VEHICLES               | 19,432,305        | 73,670         | 2,187,683        | 50,338           | 35,813           | 89,296           | 1,890,798        |
| 2002              | 12    | OFF-HIGHWAY                    | 6,209,596         | 477            | 865,130          | 72,019           | 68,302           | 96,336           | 813,788          |
| 2002              | 14    | MISCELLANEOUS                  | 2,054,548         | 569,073        | 41,724           | 3,065,377        | 522,726          | 11,407           | 113,321          |
| <b>2002 Total</b> |       |                                | <b>30,073,168</b> | <b>665,818</b> | <b>5,429,845</b> | <b>3,895,998</b> | <b>1,075,343</b> | <b>4,879,941</b> | <b>5,178,836</b> |
| 2009              | 01    | FUEL COMB. ELEC. UTIL.         | 190,535           | 5,474          | 789,299          | 125,750          | 91,587           | 2,497,423        | 14,208           |
| 2009              | 02    | FUEL COMB. INDUSTRIAL          | 391,422           | 1,305          | 445,967          | 74,588           | 51,491           | 514,636          | 32,431           |
| 2009              | 03    | FUEL COMB. OTHER               | 544,289           | 3,198          | 123,297          | 85,410           | 77,042           | 112,323          | 207,146          |
| 2009              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 140,910           | 7,611          | 22,031           | 11,742           | 8,394            | 76,021           | 54,168           |
| 2009              | 05    | METALS PROCESSING              | 236,473           | 705            | 11,763           | 25,130           | 21,288           | 54,337           | 17,954           |
| 2009              | 06    | PETROLEUM & RELATED INDUSTRIES | 48,118            | 399            | 7,863            | 3,282            | 2,124            | 46,975           | 25,028           |
| 2009              | 07    | OTHER INDUSTRIAL PROCESSES     | 166,088           | 7,545          | 117,625          | 298,719          | 111,218          | 90,420           | 202,567          |
| 2009              | 08    | SOLVENT UTILIZATION            | 771               | 360            | 6,662            | 4,274            | 3,679            | 100              | 1,256,884        |
| 2009              | 09    | STORAGE & TRANSPORT            | 702               | 98             | 1,087            | 10,729           | 5,743            | 160              | 275,462          |
| 2009              | 10    | WASTE DISPOSAL & RECYCLING     | 770,459           | 869            | 36,697           | 105,449          | 97,841           | 7,287            | 113,473          |
| 2009              | 11    | HIGHWAY VEHICLES               | 13,864,869        | 87,027         | 1,414,834        | 41,861           | 26,498           | 10,962           | 1,217,185        |
| 2009              | 12    | OFF-HIGHWAY                    | 6,827,857         | 530            | 767,707          | 61,528           | 58,279           | 42,845           | 649,786          |
| 2009              | 14    | MISCELLANEOUS                  | 2,214,906         | 606,617        | 45,212           | 3,312,407        | 568,364          | 12,370           | 121,629          |
| <b>2009 Total</b> |       |                                | <b>25,397,398</b> | <b>721,736</b> | <b>3,790,044</b> | <b>4,160,870</b> | <b>1,123,548</b> | <b>3,465,859</b> | <b>4,187,921</b> |
| 2018              | 01    | FUEL COMB. ELEC. UTIL.         | 262,414           | 9,306          | 568,158          | 152,642          | 118,959          | 1,169,110        | 17,090           |
| 2018              | 02    | FUEL COMB. INDUSTRIAL          | 416,721           | 1,383          | 470,326          | 80,011           | 55,648           | 513,072          | 34,720           |
| 2018              | 03    | FUEL COMB. OTHER               | 453,482           | 3,358          | 136,431          | 78,032           | 69,854           | 116,672          | 149,363          |
| 2018              | 04    | CHEMICAL & ALLIED PRODUCT MFG  | 173,857           | 9,023          | 26,564           | 14,454           | 10,360           | 94,010           | 67,414           |
| 2018              | 05    | METALS PROCESSING              | 279,850           | 926            | 14,871           | 31,221           | 26,572           | 66,150           | 23,089           |
| 2018              | 06    | PETROLEUM & RELATED INDUSTRIES | 53,392            | 460            | 8,891            | 3,845            | 2,490            | 43,055           | 27,283           |
| 2018              | 07    | OTHER INDUSTRIAL PROCESSES     | 189,922           | 8,793          | 136,722          | 348,119          | 130,778          | 100,824          | 237,601          |
| 2018              | 08    | SOLVENT UTILIZATION            | 936               | 404            | 8,480            | 5,354            | 4,601            | 119              | 1,515,005        |
| 2018              | 09    | STORAGE & TRANSPORT            | 855               | 119            | 1,258            | 13,540           | 7,283            | 192              | 290,267          |
| 2018              | 10    | WASTE DISPOSAL & RECYCLING     | 821,737           | 1,068          | 40,324           | 114,690          | 105,745          | 8,544            | 125,406          |
| 2018              | 11    | HIGHWAY VEHICLES               | 10,312,627        | 103,394        | 663,796          | 33,426           | 16,403           | 10,281           | 752,732          |
| 2018              | 12    | OFF-HIGHWAY                    | 7,438,312         | 612            | 601,040          | 48,648           | 45,927           | 35,166           | 546,062          |
| 2018              | 14    | MISCELLANEOUS                  | 2,241,196         | 653,831        | 45,776           | 3,624,653        | 600,107          | 12,532           | 124,137          |
| <b>2018 Total</b> |       |                                | <b>22,645,302</b> | <b>792,678</b> | <b>2,722,636</b> | <b>4,548,634</b> | <b>1,194,728</b> | <b>2,169,725</b> | <b>3,910,170</b> |



**APPENDIX E:**

**AIRCRAFT PM EXCERPT FROM 2001 TUCSON REPORT**



**Final Report**

**EMISSIONS INVENTORIES FOR  
THE TUCSON AIR PLANNING AREA**

**VOLUME I. STUDY DESCRIPTION AND RESULTS**

**Prepared for**

**Pima Association of Governments  
177 N. Church Avenue, Suite 405  
Tucson, AZ 85701**

**Prepared by**

**Marianne Causley  
Rumla, Inc.  
3243 Gloria Terrace  
Lafayette, CA 94549**

**Daniel Meszler  
Energy and Environmental Analysis, Inc.  
1655 North Fort Myer Drive  
Arlington, VA 22209**

**Russell Jones  
Stratus Consulting, Inc.  
P.O. Box 4059  
Boulder, CO 80306-4059**

**Steven Reynolds  
Envair  
12 Palm Avenue  
San Rafael, CA 94901**

**November 2001**







## **ACKNOWLEDGEMENTS**

The authors extend their appreciation to the many individuals that contributed to this study. Particular thanks go to the staff of the Pima Association of Governments. Darcy Anderson was instrumental in providing definition at the outset of the study. Lee Comrie and Natalie Barnes provided considerable assistance with the emissions surveys, made many thoughtful suggestions and contributions throughout the study, and provided helpful comments on the draft final report. Kwame Agyare, Wayne Byrd and Bill Maxwell of the Pima County Department of Environmental Quality offered valuable assistance in providing socioeconomic and PDEQ permit data and in sharing their knowledge of emissions sources in the Tucson Air Planning Area. Dan Catlin of the Arizona Department of Environmental Quality provided insightful comments during the course of the study and reviewed the draft final report.

Many individuals in the Tucson area participated in the annual and day-specific emissions surveys conducted as part of this study. The information they provided is sincerely appreciated.

We also wish to acknowledge Patricia El-Gasseir and Helen Fugate of Rumla, Inc. for their dedicated efforts in building the facilities database.







## TABLE OF CONTENTS

|  |      |
|--|------|
| ACKNOWLEDGEMENTS .....   | i    |
| LIST OF TABLES .....   | viii |
| LIST OF FIGURES .....  | xiii |
| ABBREVIATIONS AND ACRONYMS .....                                 | xiv  |
| EXECUTIVE SUMMARY .....  | ES-1 |
| 1 BACKGROUND .....   | 1-1  |
| 1.1 Current Air Quality Status of the Tucson Area .....          | 1-1  |
| 1.1.1 Ozone .....  | 1-1  |
| 1.1.2 Carbon Monoxide .....                                      | 1-3  |
| 1.1.3 Particulate Matter .....                                   | 1-3  |
| 1.2 Overview of the Emissions Inventories .....                  | 1-4  |
| 1.3 Emissions Support for Photochemical Modeling in Tucson ..... | 1-6  |
| 1.4 Organization of This Report .....                            | 1-7  |
| 2 POINT SOURCES .....  | 2-1  |
| 2.1 Identification of Sources .....                              | 2-1  |
| 2.2 Data Collection .....  | 2-2  |
| 2.3 Data Entry .....   | 2-4  |
| 2.4 Calculation Methodologies .....                              | 2-5  |
| 2.4.1 Emissions Based on 2000 Actual Data .....                  | 2-6  |
| 2.4.2 Emissions Based on Adjustment of 1999 Data .....           | 2-7  |
| 2.4.3 Emissions Based on General Activity Data .....             | 2-7  |
| 2.4.4 Emissions Based on Evaporative Processes .....             | 2-8  |
| 2.5 Data Quality and Completeness .....                          | 2-9  |
| 2.6 Future Year Estimations .....                                | 2-11 |
| 2.7 Point Source Emissions Summary .....                         | 2-12 |
| 2.8 Temporal Activity Data .....                                 | 2-13 |
| 2.8.1 Point Source TAF Comparison .....                          | 2-15 |
| 2.8.2 Point and Area TAF Comparison .....                        | 2-16 |
| 3 STATIONARY AREA SOURCES .....                                  | 3-1  |
| 3.1 Architectural Coating .....                                  | 3-4  |
| 3.1.1 Methodology .....  | 3-4  |
| 3.1.2 Calculations .....   | 3-5  |
| 3.2 Asphalt Paving .....   | 3-6  |
| 3.2.1 Methodology .....  | 3-6  |
| 3.2.2 Calculations .....   | 3-7  |



## TABLE OF CONTENTS (Continued)

|        |  |      |
|--------|--|------|
| 3.3    | Automobile Refinishing .....                       | 3-7  |
| 3.3.1  | Methodology.....                                   | 3-7  |
| 3.3.2  | Calculations .....                                 | 3-8  |
| 3.4    | Commercial Bakeries .....                          | 3-9  |
| 3.4.1  | Methodology.....                                   | 3-9  |
| 3.4.2  | Calculations .....                                 | 3-9  |
| 3.5    | Consumer Solvent Usage .....                       | 3-10 |
| 3.5.1  | Methodology.....                                   | 3-10 |
| 3.5.2  | Calculations .....                                 | 3-10 |
| 3.6    | Dry Cleaning.....                                  | 3-11 |
| 3.6.1  | Methodology.....                                   | 3-11 |
| 3.6.2  | Calculations .....                                 | 3-12 |
| 3.7    | Forest Fires and Prescribed Burnings .....         | 3-13 |
| 3.7.1  | Methodology.....                                   | 3-13 |
| 3.7.2  | Calculations .....                                 | 3-13 |
| 3.8    | Gasoline Distribution .....                        | 3-15 |
| 3.8.1  | Methodology.....                                   | 3-15 |
| 3.8.2  | Calculations .....                                 | 3-17 |
| 3.9    | Graphic Arts .....                                 | 3-18 |
| 3.9.1  | Methodology.....                                   | 3-18 |
| 3.9.2  | Calculations .....                                 | 3-18 |
| 3.10   | Industrial Surface Coating.....                    | 3-18 |
| 3.10.1 | Methodology.....                                   | 3-19 |
| 3.10.2 | Calculations .....                                 | 3-19 |
| 3.11   | Misc. Residential/Commercial Fuel Combustion ..... | 3-20 |
| 3.11.1 | Methodology.....                                   | 3-20 |
| 3.11.2 | Calculations .....                                 | 3-21 |
| 3.12   | Pesticide Application.....                         | 3-23 |
| 3.12.1 | Methodology.....                                   | 3-24 |
| 3.12.2 | Calculations .....                                 | 3-25 |
| 3.13   | Residential Wood Combustion.....                   | 3-25 |
| 3.13.1 | Methodology.....                                   | 3-26 |
| 3.13.2 | Calculations .....                                 | 3-26 |



**TABLE OF CONTENTS (Continued)**

|        |  |      |
|--------|--|------|
| 3.14   | Solvent Cleaning .....   | 3-28 |
| 3.14.1 | Methodology.....   | 3-28 |
| 3.14.2 | Calculations .....   | 3-29 |
| 3.15   | Structure and Vehicle Fires .....  | 3-29 |
| 3.15.1 | Methodology.....   | 3-30 |
| 3.15.2 | Calculations .....   | 3-30 |
| 3.16   | Traffic Markings.....  | 3-32 |
| 3.16.1 | Methodology.....   | 3-32 |
| 3.16.2 | Calculations .....   | 3-33 |
| 3.17   | Area Source Annual Emissions Summaries .....                                 | 3-33 |
| 3.18   | Day-specific Area Source Emissions Summaries.....                            | 3-41 |
| 4      | NONROAD MOBILE SOURCES.....  | 4-1  |
| 4.1    | Introduction .....   | 4-1  |
| 4.2    | General Use Nonroad Equipment.....   | 4-4  |
| 4.2.1  | Basic Inventory Methodology .....  | 4-6  |
| 4.2.2  | NONROAD Model Inputs.....  | 4-11 |
| 4.2.3  | Emission Estimates for Calendar Year 2000.....                               | 4-14 |
| 4.2.4  | Emissions Estimates for Tuesday August 22, 2000 .....                        | 4-17 |
| 4.2.5  | Emissions Estimates for Sunday September 10, 2000 .....                      | 4-21 |
| 4.2.6  | Emissions Estimates for Saturday April 14, 2001.....                         | 4-21 |
| 4.2.7  | Emissions Estimates for Tuesday April 24, 2001 .....                         | 4-22 |
| 4.2.8  | Emissions Estimates for Calendar Year 2005 .....                             | 4-24 |
| 4.2.9  | Emissions Estimates for Calendar Year 2010 .....                             | 4-25 |
| 4.2.10 | Temporal Allocation Factors for General Use Nonroad Equipment.....           | 4-27 |
| 4.3    | Aircraft Operations.....   | 4-28 |
| 4.3.1  | Commercial Air Carrier Emission Estimates for Calendar Year 2000 .....       | 4-30 |
| 4.3.2  | Commercial Air Carrier APU Emission Estimates for<br>Calendar Year 2000..... | 4-44 |
| 4.3.3  | Other Aircraft Emissions for Calendar Year 2000 .....                        | 4-45 |
| 4.3.4  | Other Potential Aircraft Emissions Sources Not Currently Considered .....    | 4-64 |
| 4.3.5  | Aircraft Emissions Estimates for Tuesday August 22, 2000.....                | 4-68 |
| 4.3.6  | Aircraft Emissions Estimates for Sunday September 10, 2000.....              | 4-69 |
| 4.3.7  | Aircraft Emissions Estimates for Saturday April 14, 2001 .....               | 4-70 |
| 4.3.8  | Aircraft Emissions Estimates for Tuesday April 24, 2001 .....                | 4-70 |
| 4.3.9  | Aircraft Emissions Estimates for Calendar Year 2005 .....                    | 4-77 |
| 4.3.10 | Aircraft Emissions Estimates for Calendar Year 2010 .....                    | 4-83 |
| 4.3.11 | Day-Specific and Forecast Aircraft Emission Estimates for TIA .....          | 4-88 |
| 4.3.12 | Temporal Allocation Factors for Aircraft Emissions .....                     | 4-88 |



**TABLE OF CONTENTS (Continued)**

|       |  |       |
|-------|--|-------|
| 4.4   | Aircraft Ground Support Equipment  | 4-88  |
| 4.4.1 | GSE Emissions Estimates for Calendar Year 2000 .....                       | 4-94  |
| 4.4.2 | GSE Emissions Estimates for Tuesday August 22, 2000.....                   | 4-102 |
| 4.4.3 | GSE Emissions Estimates for Sunday September 10, 2000.....                 | 4-104 |
| 4.4.4 | GSE Emissions Estimates for Saturday April 14, 2001 .....                  | 4-104 |
| 4.4.5 | GSE Emissions Estimates for Tuesday April 24, 2001 .....                   | 4-108 |
| 4.4.6 | GSE Emissions Estimates for Calendar Year 2005 .....                       | 4-108 |
| 4.4.7 | GSE Emissions Estimates for Calendar Year 2010 .....                       | 4-108 |
| 4.4.8 | Temporal Allocation Factors for GSE Emissions .....                        | 4-108 |
| 4.5   | Commercial Marine Operations .....   | 4-113 |
| 4.6   | Locomotive Operations .....  | 4-113 |
| 4.6.1 | Locomotive Emission Estimates for Calendar Year 2000 .....                 | 4-114 |
| 4.6.2 | Day-Specific Locomotive Emission Estimates for<br>Calendar Year 2000.....  | 4-124 |
| 4.6.3 | Day-Specific Locomotive Emission Estimates for<br>Calendar Year 2001 ..... | 4-125 |
| 4.6.4 | Locomotive Emission Estimates for<br>Calendar Years 2005 and 2010 .....    | 4-125 |
| 4.6.5 | Temporal Allocation Factors for Locomotive Emissions .....                 | 4-125 |
| 5     | MODEL INVENTORY PREPARATION .....  | 5-1   |
| 5.1   | Overview .....   | 5-1   |
| 5.1.1 | Spatial Resolution of Emissions.....                                       | 5-2   |
| 5.1.2 | Temporal Resolution of Emissions .....                                     | 5-2   |
| 5.1.3 | Chemical Resolution of Emissions .....                                     | 5-3   |
| 5.2   | Inventory Preparation .....  | 5-3   |
| 5.2.1 | Emission Data .....  | 5-6   |
| 5.2.2 | Spatial Allocation.....  | 5-6   |
| 5.2.3 | Temporal Allocation .....  | 5-11  |
| 5.2.4 | Chemical Speciation.....   | 5-11  |
| 5.3   | Emission Processing System .....   | 5-12  |
| 5.3.1 | Output Formats.....  | 5-12  |
| 5.4   | Summary of Modeling Inventories.....                                       | 5-14  |
| 6     | DATA QUALITY REVIEW .....  | 6-1   |
| 6.1   | Point Sources.....   | 6-1   |
| 6.2   | Area Sources .....   | 6-3   |
| 6.3   | Nonroad Mobile Sources.....  | 6-4   |
| 6.4   | Photochemical Air Quality Model Input Files .....                          | 6-5   |
| 6.5   | External Review .....  | 6-6   |
| 6.6   | Overall Comments on the Inventories.....                                   | 6-9   |
| 7     | REFERENCES.....  | 7-1   |



## TABLE OF CONTENTS (Concluded)

|   |      |
|---|------|
| APPENDIX 2A. LIST OF PAG MAJOR AND MINOR FACILITIES<br>CONTACTED DURING SURVEY ACTIVITIES ..... | 2A-1 |
| APPENDIX 2B. REVISED ANNUAL SURVEY FORM FOR<br>MAJOR FACILITIES .....                           | 2B-1 |
| APPENDIX 2C. REVISED ANNUAL SURVEY FORMS FOR<br>MINOR FACILITIES.....                           | 2C-1 |
| APPENDIX 2D. PAG 2000 TOTAL EMISSIONS BY FACILITY .....   | 2D-1 |
| APPENDIX 3A. ASC SPATIAL ALLOCATION SURROGATE ASSIGNMENT  | 3A-1 |
| APPENDIX 4A. NONROAD MOBILE SOURCE EMISSIONS BY SCC.....  | 4A-1 |
| APPENDIX 4B. NONROAD MOBILE SOURCE TEMPORAL<br>ALLOCATION FACTORS .....                         | 4B-1 |
| APPENDIX 5A. NATIONAL EMISSION INVENTORY (NEI)<br>RECORD FORMATS.....                           | 5A-1 |
| APPENDIX 5B. SPATIAL ALLOCATION OF EMISSIONS USING GIS.....                                     | 5B-1 |
| APPENDIX 5C. EDBsys EMISSION OUTPUT FORMATS.....  | 5C-1 |



## LIST OF TABLES

|   |      |
|---|------|
| Table 1-1. Inventories for the Tucson Air Planning Area .....   | 1-2  |
| Table 2-1. PDEQ Permitted Facilities Flagged as a Major Point Source.....                               | 2-2  |
| Table 2-2. PAG Survey Response Rates .....  | 2-4  |
| Table 2-3. NEI Record Elements for the PAG Inventory.....   | 2-5  |
| Table 2-4. 2000 Emission Estimates Adjustments from Surveys .....                                       | 2-7  |
| Table 2-5. Resolution of Survey Data Issues and Possible Inventory Effect .....                         | 2-9  |
| Table 2-6. Ranges of EGAS Growth Factors from 2000 Baseline.....  | 2-12 |
| Table 2-7. Annual Emissions Estimates for Major and Minor Point Sources .....                           | 2-12 |
| Table 2-8. Day-specific Criteria Pollutant Totals (tons per day) .....                                  | 2-13 |
| Table 2-9. Survey Responses for Temporal Activity Profile Information .....                             | 2-14 |
| Table 3-1. TAPA Inventory Area Source Categories .....  | 3-1  |
| Table 3-2. Socioeconomic Parameters Applied to 2000 and Projected Year<br>Emission Estimations .....    | 3-3  |
| Table 3-3. Projection Factors for the 2005 and 2010 Emission Estimates.....                             | 3-3  |
| Table 3-4. Allocation Adjustment Factors .....  | 3-3  |
| Table 3-5. Architectural Coatings Gallons Per Capita Calculations.....                                  | 3-5  |
| Table 3-6. TAPA Annual Architectural Coating VOC Emission Estimates.....                                | 3-6  |
| Table 3-7. Growth Factors for the Automobile Refinishing Employment<br>in the Tucson Area .....         | 3-8  |
| Table 3-8. TAPA Annual Automobile Refinishing VOC Emissions.....  | 3-8  |
| Table 3-9. Commercial Bakery Process Emission Factors .....   | 3-10 |
| Table 3-10. TAPA Bakeries VOC Emission Estimates .....  | 3-10 |
| Table 3-11. TAPA Consumer Product Per Capita Factors and<br>Emission Estimates (tons) .....             | 3-11 |
| Table 3-12. Dry Cleaning Telephone Survey Responses .....   | 3-12 |
| Table 3-13. Pima County Acres Burned During 2000 .....  | 3-13 |
| Table 3-14. Emission Factors for Estimation of Forest Fire and Prescribed Burnings                      | 3-14 |
| Table 3-15. TAPA 2000 Emissions from Forest Fires and Prescribed Burnings (tons)                        | 3-14 |
| Table 3-16. TAPA 2005 and 2010 Emissions from Forest Fires and Prescribed<br>Burnings (tons/year) ..... | 3-15 |
| Table 3-17. Year 2000 Gasoline Tax Sales (gallons) .....  | 3-16 |
| Table 3-18. TAPA VOC Emissions from Gasoline Marketing Activities (tons) .....                          | 3-17 |
| Table 3-19. TAPA VOC Emissions from Graphic Arts (tons) .....   | 3-18 |
| Table 3-20. ZIP Codes Included for Dun & Bradstreet Extraction .....                                    | 3-19 |
| Table 3-21. TAPA VOC Emission Estimates for Industrial Surface Coating (tons) .                         | 3-20 |
| Table 3-22. Natural Gas and LPG Emission Factors .....  | 3-21 |
| Table 3-23. 2000 Natural Gas and LPG Sales for the Tucson Area.....                                     | 3-22 |
| Table 3-24. TAPA 2000 Emissions from Miscellaneous Combustion (tons/year) ....                          | 3-22 |
| Table 3-25. TAPA 2005 Emissions from Miscellaneous Combustion (tons/year) ....                          | 3-23 |
| Table 3-26. TAPA 2010 Emissions from Miscellaneous Combustion (tons/year).....                          | 3-23 |



**LIST OF TABLES (Continued)**

|  |         |
|--|---------|
| Table 3-27. Identified Survey Contacts and Responses for the Source<br>Category Pesticide Application.....             | 3-24    |
| Table 3-28. Growth Factors for the Dwelling Units in the Tucson Area .....   | 3-26    |
| Table 3-29. Tons of Wood Burned by Type.....   | 3-27    |
| Table 3-30. Residential Wood Burning Emission Factors (lbs/ton burned) .....   | 3-27    |
| Table 3-31. Annual Emissions from Residential Wood Burning by Device (tons) ....                                       | 3-28    |
| Table 3-32. TAPA Annual VOC Emission Estimates from Solvent Cleaning (tons) .....                                      | 3-29    |
| Table 3-33. 2000 Fire Incident Counts for Structural and Vehicle Fires .....   | 3-31    |
| Table 3-34. Emission Factors for Structural and Vehicular Fires.....   | 3-31    |
| Table 3-35. Annual TAPA Emissions from Structure and Vehicle Fires (tons) .....  | 3-32    |
| Table 3-36. TAPA Emissions from Traffic Markings .....   | 3-33    |
| Table 3-37. TAPA Inventory Area Source Categories Estimation Methods .....   | 3-35    |
| Table 3-38. TAPA 2000 Annual Area Source Emissions by Source Category (tons) .....                                     | 3-36    |
| Table 3-39. TAPA 2005 Annual Area Source Emissions by Source Category (tons) .....                                     | 3-38    |
| Table 3-40. TAPA 2010 Annual Area Source Emissions by Source Category (tons) .....                                     | 3-40    |
| Table 3-41. TAPA August 22, 2000 Area Source Emissions by Source Category.....   | 3-43    |
| Table 3-42. TAPA September 10, 2000 Area Source Emissions by Source Category .....                                     | 3-45    |
| Table 3-43. TAPA April 24, 2001 Area Source Emissions by Source Category.....  | 3-47    |
| <br>Table 4-1. Nonroad Mobile Source Equipment Categories .....  | <br>4-2 |
| Table 4-2. NONROAD Model Equipment Allocation Parameters.....  | 4-10    |
| Table 4-3. Retail Fuel Test Data for 2000.....   | 4-12    |
| Table 4-4. NONROAD Model Fuel Input Parameters.....  | 4-14    |
| Table 4-5. NONROAD Model Temperature Input Parameters.....   | 4-14    |
| Table 4-6. TAPA General Use Nonroad Equipment Emission Inventory<br>for 2000 (tons per year) .....                     | 4-15    |
| Table 4-7. Allocation Factors used to Convert County to TAPA Emission Estimates .....                                  | 4-18    |
| Table 4-8. NONROAD Model Input Parameters for Day-Specific Inventories.....  | 4-18    |
| Table 4-9. TAPA General Use Nonroad Equipment Emission Inventory for<br>Tuesday August 22, 2000 (tons per day).....    | 4-19    |
| Table 4-10. NONROAD Model Monthly Activity Allocation Factors.....   | 4-20    |
| Table 4-11. NONROAD Model Day-of-Week Activity Allocation Factors.....   | 4-20    |
| Table 4-12. TAPA General Use Nonroad Equipment Emission Inventory for<br>Sunday September 10, 2000 (tons per day)..... | 4-22    |
| Table 4-13. TAPA General Use Nonroad Equipment Emission Inventory for<br>Saturday April 14, 2001 (tons per day) .....  | 4-23    |
| Table 4-14. TAPA General Use Nonroad Equipment Emission Inventory for<br>Tuesday April 24, 2001 (tons per day).....    | 4-24    |
| Table 4-15. NONROAD Model Fuel Input Parameters for 2005 and 2010 .....  | 4-26    |
| Table 4-16. TAPA General Use Nonroad Equipment Emission Inventory for<br>2005 (tons per year).....                     | 4-26    |



**LIST OF TABLES (Continued)**

|   |      |
|---|------|
| Table 4-17. TAPA General Use Nonroad Equipment Emission Inventory for 2010 (tons per year).....                                 | 4-28 |
| Table 4-18. 1999 FAA Commercial Air Carrier Data for TIA .....  | 4-31 |
| Table 4-19. 1999 Aircraft Operations Data Reported by TIA.....  | 4-33 |
| Table 4-20. 2000 Aircraft Operations Data for TIA.....  | 4-35 |
| Table 4-21. TIA Taxi Time Data as Reported by U.S. DOT (minutes) .....  | 4-35 |
| Table 4-22. TIA Mixing Height Data.....   | 4-37 |
| Table 4-23. Statistics for Aircraft and APU PM Relations .....  | 4-42 |
| Table 4-24. TIA Emission Inventory for 2000 (tons per year).....  | 4-44 |
| Table 4-25. APU Usage Rates at TIA .....  | 4-46 |
| Table 4-26. Aircraft Activity Other Than Commercial Air Carriers in 2000.....   | 4-47 |
| Table 4-27. National Distribution of General Aviation and Air Taxi Aircraft .....   | 4-50 |
| Table 4-28. Comparison of LTO-Specific Emission Rates for General Aviation and Air Taxi Aircraft (pounds per LTO).....          | 4-50 |
| Table 4-29. Local Distribution of General Aviation and Air Taxi Aircraft.....   | 4-51 |
| Table 4-30. EPA Default TIM Data for General Aviation and Air Taxi Aircraft (minutes per LTO).....                              | 4-52 |
| Table 4-31. Methodology Used to Develop Taxi/Idle Times for Local General Aviation and Air Taxi Aircraft.....                   | 4-53 |
| Table 4-32. Local Taxi/Idle TIM Data for General Aviation and Air Taxi Aircraft (minutes per LTO).....                          | 4-54 |
| Table 4-33. Local TIM Data for General Aviation and Air Taxi Aircraft (minutes per LTO).....                                    | 4-55 |
| Table 4-34. Based General Aviation and Air Taxi Aircraft in 2000.....   | 4-56 |
| Table 4-35. Local Taxi/Idle TIM Data for General Aviation and Air Taxi Aircraft (minutes per LTO).....                          | 4-58 |
| Table 4-36. Military Aircraft Distributions for 2000 .....  | 4-61 |
| Table 4-37. EPA Default TIM Data for Military Aircraft (minutes per LTO).....   | 4-61 |
| Table 4-38. Local and TIM Data for Military Aircraft (minutes per LTO).....   | 4-62 |
| Table 4-39. Aircraft Emissions for Operations other than Commercial Air Carriers in 2000 (tons per year).....                   | 4-65 |
| Table 4-40. Total Aircraft and APU Emissions in 2000 by Airport (tons per year) ..  | 4-66 |
| Table 4-41. Total Aircraft and APU Emissions in 2000 by Aircraft Type (tons per year).....                                      | 4-66 |
| Table 4-42. Other Potential Aircraft Activity Locations.....  | 4-68 |
| Table 4-43. Day-of-Week Allocation Factors for Aircraft.....  | 4-70 |
| Table 4-44. Aircraft Emissions for Operations other than Commercial Air Carriers On Tuesday August 22, 2000 (tons per day)..... | 4-71 |
| Table 4-45. Total Aircraft and APU Emissions on Tuesday August 22, 2000 by Airport (tons per day) .....                         | 4-72 |
| Table 4-46. Total Aircraft and APU Emissions on Tuesday August 22, 2000 by Aircraft Type (tons per day) .....                   | 4-72 |



**LIST OF TABLES (Continued)**

|   |       |
|---|-------|
| Table 4-47. Aircraft Emissions for Operations other than Commercial Air Carriers<br>On Sunday September 10, 2000 (tons per day) ..... | 4-73  |
| Table 4-48. Total Aircraft and APU Emissions on Sunday September 10, 2000<br>By Airport (tons per day).....                           | 4-74  |
| Table 4-49. Total Aircraft and APU Emissions on Sunday September 10, 2000<br>By Aircraft Type (tons per day).....                     | 4-74  |
| Table 4-50. Aircraft Emissions for Operations other than Commercial Air Carriers<br>On Saturday April 14, 2001 (tons per day) .....   | 4-75  |
| Table 4-51. Total Aircraft and APU Emissions on Saturday April 14, 2001 by<br>Airport (tons per day) .....                            | 4-76  |
| Table 4-52. Total Aircraft and APU Emissions on Saturday April 14, 2001 by<br>Aircraft Type (tons per day) .....                      | 4-76  |
| Table 4-53. Aircraft Emissions for Operations other than Commercial Air Carriers<br>On Tuesday April 24, 2001 (tons per day) .....    | 4-78  |
| Table 4-54. Total Aircraft and APU Emissions on Tuesday April 24, 2001 by<br>Airport (tons per day) .....                             | 4-79  |
| Table 4-55. Total Aircraft and APU Emissions on Tuesday April 24, 2001 by<br>Aircraft Type (tons per day) .....                       | 4-79  |
| Table 4-56. Aircraft Operational Growth Ratios (Forecast Year/2000 Activity).....   | 4-80  |
| Table 4-57. Aircraft Operations Summary.....  | 4-81  |
| Table 4-58. Based Aircraft Summary.....   | 4-82  |
| Table 4-59. Aircraft Emissions for Operations other than Commercial Air Carriers<br>in 2005 (tons per year).....                      | 4-84  |
| Table 4-60. Total Aircraft and APU Emissions in 2005 by Airport (tons per year) ..  | 4-85  |
| Table 4-61. Total Aircraft and APU Emissions in 2005 by Aircraft Type<br>(tons per year).....   | 4-85  |
| Table 4-62. Aircraft Emissions for Operations other than Commercial Air Carriers<br>in 2010 (tons per year).....                      | 4-86  |
| Table 4-63. Total Aircraft and APU Emissions in 2010 by Airport (tons per year) ..  | 4-87  |
| Table 4-64. Total Aircraft and APU Emissions in 2010 by Aircraft Type<br>(tons per year).....   | 4-87  |
| Table 4-65. TIA Emission Inventory for Tuesday August 22, 2000 (tons per day) ...   | 4-89  |
| Table 4-66. TIA Emission Inventory for Sunday September 10, 2000<br>(tons per day).....   | 4-89  |
| Table 4-67. TIA Emission Inventory for Saturday April 14, 2001 (tons per day) .....   | 4-90  |
| Table 4-68. TIA Emission Inventory for Tuesday April 24, 2001 (tons per day) .....  | 4-90  |
| Table 4-69. TIA Emission Inventory for 2005 (tons per year).....  | 4-91  |
| Table 4-70. TIA Emission Inventory for 2010 (tons per year).....  | 4-91  |
| Table 4-71. Aircraft Ground Support Equipment Reported by TIA .....   | 4-95  |
| Table 4-72. Aircraft Ground Support Equipment Reported by DM .....  | 4-97  |
| Table 4-73. Summary of Reported and Additional GSE Types .....  | 4-99  |
| Table 4-74. Summary (Average) GSE Statistics for TIA.....   | 4-100 |



## LIST OF TABLES (Concluded)

|   |       |
|---|-------|
| Table 4-75. Summary (Average) GSE Statistics for DM.....  | 4-101 |
| Table 4-76. GSE Model LTO, Fuel, Temperature, and Humidity Input Parameters .                                   | 4-102 |
| Table 4-77. GSE Emission Inventories for Calendar Year 2000 (tons per year) .....                               | 4-103 |
| Table 4-78. GSE Emission Inventories for Tuesday August 22, 2000<br>(tons per day).....                         | 4-105 |
| Table 4-79. GSE Emission Inventories for Sunday September 10, 2000<br>(tons per day).....                       | 4-106 |
| Table 4-80. GSE Emission Inventories for Saturday April 14, 2001 (tons per day)..                               | 4-109 |
| Table 4-81. GSE Emission Inventories for Tuesday April 24, 2001 (tons per day)...                               | 4-110 |
| Table 4-82. GSE Emission Inventories for Calendar Year 2005 (tons per year) .....                               | 4-111 |
| Table 4-83. GSE Emission Inventories for Calendar Year 2010 (tons per year) .....                               | 4-112 |
| Table 4-84. Fuel Consumption Indices for Union Pacific Railroad.....  | 4-115 |
| Table 4-85. Union Pacific Railroad Gross Ton Miles for Pima County Track<br>Segments .....                      | 4-117 |
| Table 4-86. Union Pacific Railroad Fuel Consumption in the TAPA .....   | 4-118 |
| Table 4-87. Forecasted Union Pacific Railroad Fuel Consumption in the TAPA .....                                | 4-121 |
| Table 4-88. Locomotive Emission Control Impacts on Fleetwide Emission Rates<br>For Union Pacific Railroad ..... | 4-121 |
| Table 4-89. Locomotive Emission Factors for Union Pacific Railroad<br>(pounds per gallon of fuel consumed)..... | 4-123 |
| Table 4-90. Annual Locomotive Emission Estimates for the TAPA (tons per year).                                  | 4-124 |
| Table 4-91. Day-Specific Locomotive Emission Estimates for the TAPA<br>(tons per year).....                     | 4-126 |



## LIST OF FIGURES

|  |       |
|--|-------|
| Figure 2-1. Total Hours of Operation by Day of Week.....   | 2-14  |
| Figure 2-2. PAG 190 Hourly Activity Profiles.....  | 2-16  |
| Figure 2-3. PAG 095 Hourly Activity Profiles.....  | 2-17  |
| Figure 2-4. PAG 095 Day-of-Week Activity Profiles.....   | 2-17  |
| Figure 2-5. PAG 095 Monthly Activity Profiles.....   | 2-18  |
| Figure 3-1. TAPA 2000 VOC Emissions.....   | 3-34  |
| Figure 3-2. TAPA 2000 NOx Emissions.....   | 3-34  |
| Figure 3-3. TAPA August 22, 2000 Area Source VOC Emissions.....  | 3-49  |
| Figure 3-4. TAPA August 22, 2000 Area Source NOx Emissions.....  | 3-49  |
| Figure 3-5. TAPA September 10, 2000 Area Source VOC Emissions.....   | 3-50  |
| Figure 3-6. TAPA September 10, 2000 Area Source NOx Emissions.....   | 3-50  |
| Figure 3-7. TAPA April 24, 2001 Area Source VOC Emissions.....   | 3-51  |
| Figure 3-8. TAPA April 24, 2001 Area Source NOx Emissions.....   | 3-51  |
| Figure 4-1. Relationship Used to Estimate Aircraft PM Emission Rates.....  | 4-42  |
| Figure 4-2. Class I Railroad Freight Movement Since 1970.....  | 4-119 |
| Figure 4-3. Class I Railroad Energy Intensity Since 1970.....  | 4-120 |
| Figure 4-4. Fleetwide Locomotive Emission Reductions.....  | 4-122 |
| Figure 5-1. Episodic Day Inventories for the Tucson Air Planning Area.....   | 5-4   |
| Figure 5-2. Modeling Inventory Processing Input Data.....  | 5-5   |
| Figure 5-3. Spatial Allocation Factor Surrogate Definition for the TAPA.....   | 5-7   |
| Figure 5-4. Carbon-bond Mechanism Species Gram Molecular Weights<br>for Reporting.....   | 5-15  |
| Figure 5-5. Modeling Input Emissions Totals for the August 22 <sup>nd</sup><br>Typical Summer Day (tons/day).....  | 5-15  |
| Figure 5-6. Day-specific Modeling Input Emissions Totals (tons).....   | 5-16  |
| Figure 6-1. Diurnal Variation of Stationary Area Source NO Emissions<br>(g-mole/hour) in Grid Cell (105,120) from the Typical<br>Summer Day 2000 UAM Input File..... | 6-7   |
| Figure 6-2. Gridded Stationary Area Source Paraffin Emissions (g-mole/hour)<br>at 1 PM from the Typical Summer Day 2000 UAM Input File.....                          | 6-8   |



## ABBREVIATIONS AND ACRONYMS

|       |  |
|-------|--|
| ADEQ  | Arizona Department of Environmental Quality    |
| ADWM  | Arizona Department of Weights and Measures     |
| ALD2  | High Molecular Weight Aldehydes (RCHO, R≠H)    |
| AML   | Arc Macro Language                             |
| AQM   | Air Quality Model                              |
| APU   | Aircraft Power Unit                            |
| ARB   | California Air Resources Board                 |
| ASC   | Area Source Category Code                      |
| AT    | Air Taxi                                       |
| CNG   | Compressed Natural Gas                         |
| CO    | Carbon Monoxide                                |
| CSF   | Chemical Speciation Factor                     |
| DM    | Davis-Monthan Air Force Base                   |
| DOT   | Department of Transportation                   |
| EDMS  | Emissions Dispersion Modeling System           |
| EEA   | Energy & Environmental Analysis, Inc.          |
| EIPP  | Emission Inventory Preparation Plan            |
| EPA   | The U.S. Environmental Protection Agency       |
| ETH   | Ethene (CH <sub>2</sub> =CH <sub>2</sub> )     |
| FAA   | Federal Aviation Administration                |
| FAEED | FAA Aircraft Engine Emission Database          |
| FIPS  | Federal Information Processing System          |
| FIRE  | EPA's Factor Information REtrieval Data System |
| FORM  | Formaldehyde (CH <sub>2</sub> =O)              |
| GA    | General Aviation                               |
| GIS   | Geographical Information System                |
| GSE   | Ground Support Equipment                       |
| ICAO  | International Civil Aviation Organization      |



## ABBREVIATIONS AND ACRONYMS

|                   |   |
|-------------------|---|
| ISOP              | Isoprene  |
| LPG               | Liquid Petroleum Gas                            |
| LTO               | Landing and TakeOff                             |
| NAD27             | North American Datum - 1927                     |
| NCDC              | National Climatic Data Center                   |
| NEI               | US EPA National Emission Inventory              |
| NEVES             | Nonroad Engine and Vehicle Emission Study       |
| NG                | Natural Gas                                     |
| NO                | Nitric Oxide                                    |
| NO <sub>2</sub>   | Nitrogen Dioxide                                |
| NO <sub>x</sub>   | Oxides of Nitrogen                              |
| OLE               | Olefinic Carbon Bond (C=C)                      |
| ORNL              | Oak Ridge National Laboratory                   |
| PAG               | Pima Association of Governments                 |
| PAR               | Paraffinic Carbon Bond (C—C)                    |
| PDEQ              | Pima County Department of Environmental Quality |
| PM                | Particulate Matter                              |
| PM <sub>2.5</sub> | Particulate Matter less than 2.5 microns        |
| PM <sub>10</sub>  | Particulate Matter less than 10 microns         |
| RASP              | Regional Aviation System Plan                   |
| RVP               | Reid Vapor Pressure                             |
| SAF               | Spatial Allocation Factor                       |
| SCC               | Source Category Code                            |
| SCF               | Standard Cubic Foot                             |
| SIC               | Standard Industrial Classification              |
| SIP               | State Implementation Plan                       |
| SO <sub>2</sub>   | Sulfur Dioxide                                  |
| SO <sub>x</sub>   | Oxides of Sulfur                                |
| TAF               | Temporal Allocation Factor                      |



## **ABBREVIATIONS AND ACRONYMS**

|      |  |
|------|--|
| TAPA | Tucson Air Planning Area   |
| TAZ  | Transportation Analysis Zone   |
| THC  | Total Hydrocarbon  |
| TIA  | Tucson International Airport   |
| TIM  | Time-In-Mode   |
| TOL  | Tolulene ( $C_6H_5-CH_3$ )   |
| TTN  | EPA Technology Transfer Network  |
| UAM  | Urban Airshed Model  |
| UP   | Union Pacific Railroad   |
| VOC  | Volatile Organic Compounds as defined by the 1990 Clean Air Act Amendments |
| XYL  | Xylene ( $C_6H_6-(CH_3)_2$ )   |



*(Prior material unrelated to VISTAS modeling is intentionally omitted)*

While emission rates for HC, CO, and NO<sub>x</sub> are routinely measured from (new) commercial air carrier engines under the emissions certification component of International Civil Aviation Organization (ICAO) regulations, measurement of PM emissions is not required. As a result, almost all aircraft engine PM emission rate data have been collected under special studies. Currently, such data exists for only about 20 aircraft engines, with a considerable portion of these data collected by the U.S. Air Force for military aircraft engines. While emission factors for these engines are included in the AP-42 database upon which the FAEED and EDMS emission inventory models were developed, they have not been included in either model due to their limited applicability. To date, it has been standard EPA practice not to estimate PM emissions for aircraft engines. However, since the emissions models maintain a placekeeper for PM emission rates and include PM emission estimates for GSE, it can appear to the uninformed user that aircraft PM emission rates are zero. As a result, aircraft are often incorrectly considered to be insignificant PM sources even though those engines tested for PM have demonstrated significant emission rates. This policy of exclusion by omission is not appropriate in developing an accurate modeling inventory, even in the absence of a large emissions database. While a precise emissions estimate cannot be made with available data, it is clear that a zero emission rate is far from accurate.

As an alternative for this study, measured emissions data for aircraft engines that have been tested for PM were statistically analyzed to determine whether or not a relationship to other measured emissions parameters could be established. Intuitively, it was hoped that an inverse relationship with NO<sub>x</sub> might be demonstrated, as such a relationship is theoretically attractive. While the level of sophistication of the statistical analysis is constrained by the quantity of data available, simple direct and indirect linear relationships can be examined. Because data are not available for each test engine in each of the four LTO cycle modes and because relationships might be expected to vary by operating mode (due to significant changes in engine and combustion efficiency), all statistical analysis was performed for each operating mode individually.

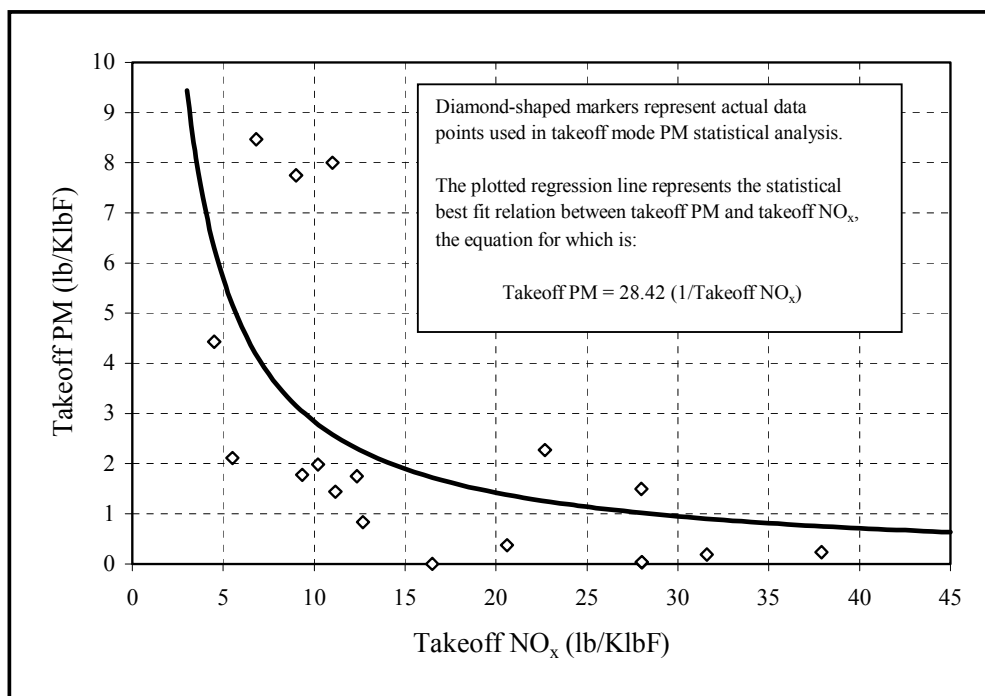


Statistically significant relationships were found for the direct linear analysis for three of the four LTO cycle modes. Significant in this context means that coefficient t-statistics for one or more of the other measured pollutants (HC, CO, or NO<sub>x</sub>) indicated a direct relationship with measured PM (at a confidence level exceeding 95 percent). In all cases, correlation coefficients were poor (as expected), suggesting a high level of variability and poor predictability of PM emissions for any given engine. Nevertheless, statistics were unbiased and should provide an accurate mechanism to initially assess PM emissions on an aggregate basis (i.e., over a range of aircraft engine models such as those associated with an analysis for an entire set of airport operations). Only at idle was no significant relation found, which is not surprising given relative engine inefficiency in this mode.

The indirect linear analysis revealed a consistent and significant inverse relationship between PM and NO<sub>x</sub> based on calculated t-statistics. Correlation coefficients continue to be poor, but t-statistics are generally improved over those of the direct linear analysis (all developed inverse relations, including idle, were significant at the 99 percent confidence level). In selecting the most appropriate relationship for estimation of PM emission rates for non-tested aircraft engines, the statistical analysis that produced the best combination of a significant t-statistic, a relatively low root mean square error, and an intuitive engineering basis was identified. This was the inverse NO<sub>x</sub> relationship for the takeoff (i.e., full throttle) mode of operation. Figure 4-1 illustrates the selected statistical relationship.

With this relationship established, PM emission rate data for the other aircraft operating modes (i.e., the approach, taxi, and climbout modes) was statistically analyzed against observed PM emission rate data for the takeoff mode. Statistically significant relations were developed for all three modes. Table 4-23 presents the coefficients developed for these PM-to-PM regressions as well as the statistics for the PM-to-NO<sub>x</sub> regression developed for the takeoff mode. These four relations were used to develop a set of fleetwide PM emission factors based on measured takeoff NO<sub>x</sub> emission rates. These emission factors were then input into the EEA aircraft emissions model and used to generate PM emission estimates for TIA aircraft operations.



**FIGURE 4-1. Relationship Used to Estimate Aircraft PM Emission Rates****TABLE 4-23. Statistics for Aircraft and APU PM Relations**

| Statistical Parameter   | Takeoff PM                | Climbout PM | Approach PM | Taxi PM    |
|-------------------------|---------------------------|-------------|-------------|------------|
| Predictive Parameter    | 1/Takeoff NO <sub>x</sub> | Takeoff PM  | Takeoff PM  | Takeoff PM |
| Coefficient             | 28.42                     | 1.42        | 1.53        | 3.10       |
| Coefficient t-statistic | 5.1                       | 11.8        | 14.9        | 5.7        |
| Correlation Coefficient | 0.30                      | 0.84        | 0.91        | 0.56       |
| F-statistic             | 7.4                       | 86.1        | 135.7       | 21.9       |
| Number of Observations  | 18                        | 17          | 15          | 18         |

*(Subsequent material unrelated to VISTAS modeling is intentionally omitted)*



**APPENDIX F:**

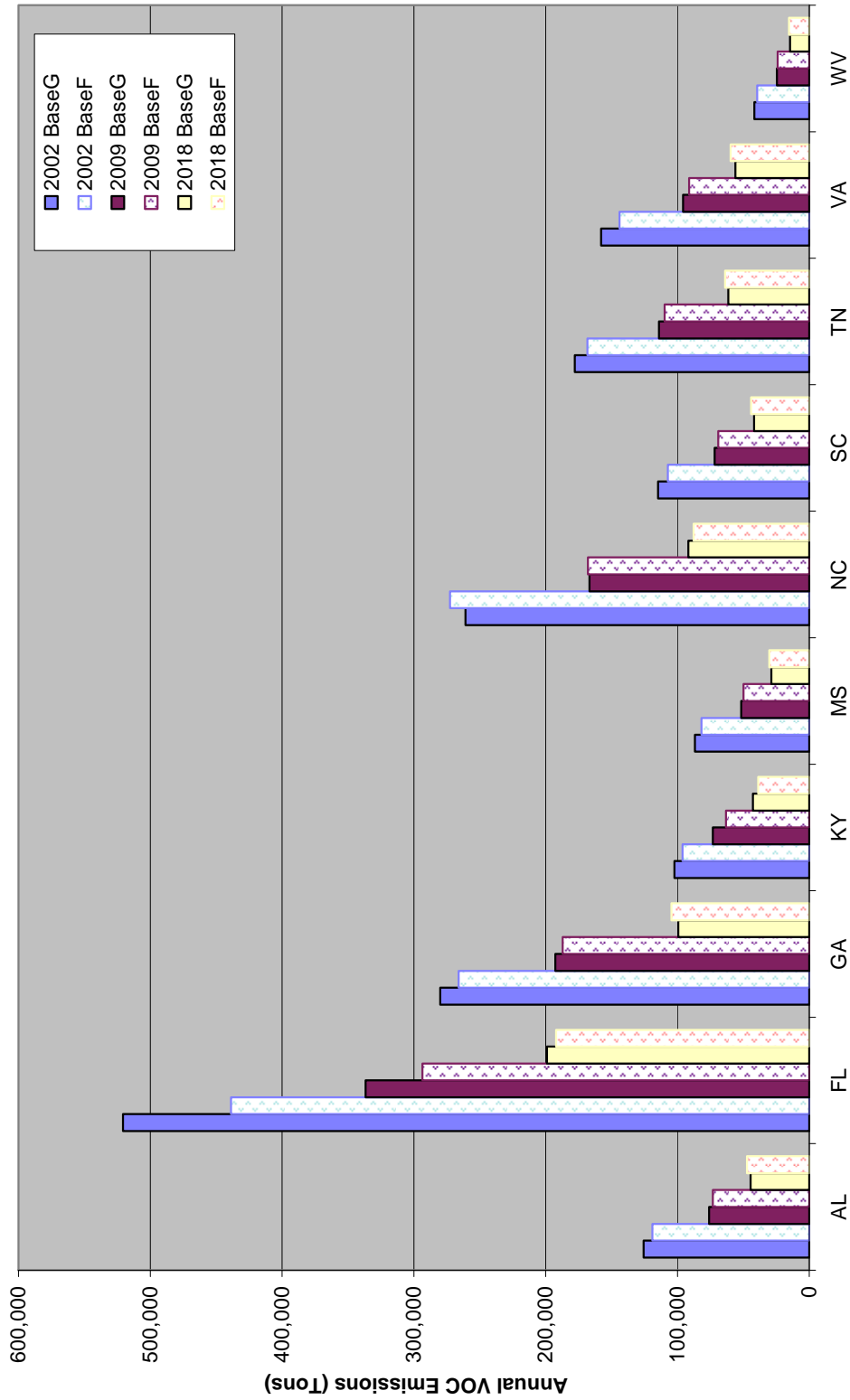
**COMPARISON OF BASE F AND BASE G ON-ROAD MOBILE EMISSIONS**



| Base G Onroad Mobile Emissions (Annual Tons)  |           |           |         |           |           |         |            |            |           |        |        |        |        |        | Base F Onroad Mobile Emissions (Annual Tons)  |        |        |        |        |        |        |      |      |      |        |      |      |      |      |      |      |
|---|-----------|-----------|---------|-----------|-----------|---------|------------|------------|-----------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|------|------|------|--------|------|------|------|------|------|------|
| VOC   |           |           |         |           | NOx       |         |            |            |           | CO     |        |        |        |        | SO2   |        |        |        |        | PM-10  |        |      |      |      | PM-2.5 |      |      |      |      |      |      |
| FIPSSST   | 2002      | 2009      | 2018    | 2002      | 2009      | 2018    | 2002       | 2009       | 2018      | 2002   | 2009   | 2018   | 2002   | 2009   | 2018  | 2002   | 2009   | 2018   | 2002   | 2009   | 2018   | 2002 | 2009 | 2018 | 2002   | 2009 | 2018 | 2002 | 2009 | 2018 |      |
| AL  | 125,768   | 76,065    | 44,503  | 156,460   | 100,693   | 42,622  | 1,303,508  | 902,469    | 594,725   | 6,827  | 802    | 654    | 3,981  | 3,136  | 2,193   | 2,768  | 2,010  | 1,085  | 5,530  | 6,298  | 6,330  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| FL  | 520,757   | 336,707   | 199,050 | 480,503   | 312,321   | 136,040 | 4,483,820  | 2,263,190  | 20,687    | 2,584  | 2,302  | 11,148 | 9,801  | 7,516  | 7,779   | 6,104  | 3,671  | 17,922 | 21,549 | 23,778 | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| GA  | 279,975   | 192,773   | 99,464  | 304,309   | 207,024   | 92,113  | 2,699,650  | 1,956,263  | 1,303,529 | 12,043 | 1,568  | 1,325  | 7,165  | 6,005  | 4,406   | 5,110  | 3,797  | 2,166  | 10,436 | 12,554 | 13,511 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| KY  | 102,362   | 73,142    | 42,810  | 154,634   | 100,025   | 46,993  | 1,214,191  | 950,912    | 711,211   | 6,238  | 751    | 694    | 3,682  | 2,944  | 2,348   | 2,667  | 1,899  | 1,158  | 5,003  | 5,737  | 7,095  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| MS  | 86,811    | 51,600    | 28,699  | 110,672   | 69,952    | 27,620  | 863,774    | 602,257    | 394,247   | 4,566  | 532    | 401    | 2,828  | 2,250  | 1,479   | 2,089  | 1,491  | 746    | 3,549  | 3,995  | 4,147  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| NC  | 260,895   | 166,844   | 91,720  | 323,606   | 199,281   | 79,433  | 2,839,283  | 1,986,195  | 1,207,391 | 12,986 | 1,487  | 1,346  | 6,505  | 5,510  | 3,994   | 4,571  | 3,453  | 1,931  | 9,601  | 11,022 | 12,776 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| SC  | 114,861   | 71,781    | 41,866  | 138,940   | 91,471    | 39,443  | 1,226,555  | 875,828    | 585,536   | 5,909  | 713    | 546    | 3,414  | 2,831  | 1,986   | 2,473  | 1,820  | 983    | 4,646  | 5,466  | 5,878  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| TN  | 177,943   | 114,032   | 61,339  | 235,869   | 150,719   | 62,446  | 1,883,704  | 1,320,562  | 863,682   | 9,127  | 1,065  | 862    | 5,312  | 4,760  | 3,213   | 3,904  | 2,720  | 1,405  | 6,556  | 7,702  | 8,196  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| VA  | 157,989   | 95,694    | 55,992  | 219,835   | 132,689   | 57,192  | 2,136,288  | 1,450,359  | 954,463   | 8,196  | 1,067  | 949    | 4,499  | 3,706  | 2,922   | 3,067  | 2,216  | 1,404  | 7,770  | 8,990  | 9,653  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| WV  | 41,703    | 24,570    | 14,852  | 58,340    | 35,234    | 15,530  | 526,841    | 360,865    | 243,683   | 2,438  | 276    | 231    | 1,366  | 1,057  | 747   | 984    | 676    | 369    | 1,889  | 2,126  | 2,268  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| VISTAS  | 1,869,063 | 1,203,208 | 680,096 | 2,163,168 | 1,398,879 | 599,336 | 19,187,613 | 13,682,570 | 9,124,656 | 88,316 | 10,844 | 9,348  | 49,780 | 41,400 | 30,403  | 35,411 | 26,200 | 14,922 | 72,902 | 86,118 | 93,932 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| Base F Onroad Mobile (Annual Tons)  |           |           |         |           |           |         |            |            |           |        |        |        |        |        | Base F Onroad Mobile (Annual Tons)  |        |        |        |        |        |        |      |      |      |        |      |      |      |      |      |      |
| VOC   |           |           |         |           | NOx       |         |            |            |           | CO     |        |        |        |        | SO2   |        |        |        |        | PM-10  |        |      |      |      | PM-2.5 |      |      |      |      |      |      |
| FIPSSST   | 2002      | 2009      | 2018    | 2002      | 2009      | 2018    | 2002       | 2009       | 2018      | 2002   | 2009   | 2018   | 2002   | 2009   | 2018  | 2002   | 2009   | 2018   | 2002   | 2009   | 2018   | 2002 | 2009 | 2018 | 2002   | 2009 | 2018 | 2002 | 2009 | 2018 |      |
| AL  | 118,978   | 73,137    | 47,151  | 157,826   | 101,299   | 46,598  | 1,300,754  | 934,442    | 675,902   | 6,898  | 637    | 720    | 3,965  | 3,195  | 2,468   | 2,799  | 2,053  | 1,262  | 5,596  | 6,362  | 7,296  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| FL  | 438,761   | 293,423   | 192,096 | 402,099   | 284,737   | 134,465 | 4,022,000  | 2,306,759  | 18,802    | 1,911  | 2,269  | 10,185 | 9,027  | 7,691  | 7,126   | 5,596  | 6,362  | 7,296  | 8,183  | 23,595 | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| GA  | 265,972   | 187,102   | 104,678 | 306,998   | 208,568   | 100,707 | 2,712,473  | 2,044,169  | 1,474,029 | 12,182 | 1,266  | 1,458  | 7,252  | 6,116  | 4,995   | 5,169  | 3,877  | 2,517  | 10,545 | 12,685 | 14,870 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| KY  | 96,202    | 63,210    | 38,814  | 154,093   | 97,731    | 43,014  | 1,195,656  | 932,296    | 669,891   | 5,988  | 587    | 651    | 3,728  | 3,008  | 2,283   | 2,699  | 1,946  | 1,160  | 5,055  | 5,807  | 6,584  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| MS  | 81,701    | 49,896    | 30,337  | 110,242   | 69,949    | 29,829  | 849,049    | 624,575    | 445,150   | 4,614  | 398    | 441    | 2,863  | 2,296  | 1,688   | 2,114  | 1,525  | 976    | 3,585  | 4,033  | 4,566  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| NC  | 272,594   | 167,894   | 87,718  | 290,873   | 207,670   | 83,399  | 2,677,118  | 2,192,253  | 1,238,802 | 12,482 | 1,314  | 1,323  | 6,733  | 5,874  | 4,298   | 3,454  | 2,562  | 1,158  | 4,694  | 5,522  | 6,165  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| SC  | 107,236   | 69,026    | 44,121  | 139,403   | 91,832    | 42,641  | 1,220,825  | 921,308    | 663,597   | 5,972  | 568    | 643    | 3,454  | 2,884  | 2,258   | 2,602  | 1,874  | 1,154  | 4,694  | 5,522  | 6,165  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| TN  | 168,399   | 109,716   | 63,916  | 233,324   | 147,591   | 66,879  | 1,881,893  | 1,359,890  | 961,929   | 9,202  | 833    | 944    | 5,349  | 4,247  | 3,199   | 3,927  | 2,788  | 1,643  | 6,599  | 7,753  | 8,962  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| VA  | 143,969   | 91,230    | 59,737  | 222,830   | 133,039   | 64,079  | 1,996,287  | 1,483,125  | 1,091,546 | 7,234  | 902    | 1,059  | 4,546  | 3,768  | 3,343   | 3,097  | 2,258  | 1,641  | 7,852  | 9,084  | 10,757 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| WV  | 39,581    | 23,914    | 15,375  | 60,335    | 36,000    | 16,940  | 533,258    | 379,272    | 273,900   | 2,496  | 228    | 255    | 1,399  | 1,099  | 844   | 1,005  | 705    | 428    | 1,938  | 2,188  | 2,484  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| VISTAS  | 1,733,332 | 1,128,638 | 683,942 | 2,077,822 | 1,378,416 | 626,551 | 18,389,312 | 13,961,764 | 9,801,505 | 85,868 | 8,622  | 9,763  | 49,414 | 41,513 | 33,086  | 35,191 | 26,330 | 16,687 | 71,778 | 85,652 | 98,664 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| Emissions Change (Base G - Base F, Annual Tons) - Positive Value Indicates Increase from Base F     |           |           |         |           |           |         |            |            |           |        |        |        |        |        | Emissions Change (Base G - Base F, Annual Tons) - Positive Value Indicates Increase from Base F     |        |        |        |        |        |        |      |      |      |        |      |      |      |      |      |      |
| VOC   |           |           |         |           | NOx       |         |            |            |           | CO     |        |        |        |        | SO2   |        |        |        |        | PM-10  |        |      |      |      | PM-2.5 |      |      |      |      |      |      |
| FIPSSST   | 2002      | 2009      | 2018    | 2002      | 2009      | 2018    | 2002       | 2009       | 2018      | 2002   | 2009   | 2018   | 2002   | 2009   | 2018  | 2002   | 2009   | 2018   | 2002   | 2009   | 2018   | 2002 | 2009 | 2018 | 2002   | 2009 | 2018 | 2002 | 2009 | 2018 |      |
| AL  | 67,891    | 2,928     | -2,647  | -1,166    | -406      | -3,977  | 2,754      | -31,973    | -81,178   | -71    | 165    | -66    | -45    | -58    | -295  | -31    | -43    | -56    | -63    | -865   | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| FL  | 81,997    | 43,284    | 6,955   | 58,404    | 27,984    | -1,544  | 47,820     | -12,823    | -47,906   | 1,855  | 672    | 14     | 963    | 774    | -175  | 653    | 451    | -177   | 1,738  | 1,996  | 1,863  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| GA  | 14,003    | 5,671     | -3,214  | -2,689    | -1,544    | -4,594  | 18,534     | -12,823    | -47,906   | -139   | 164    | 43     | -46    | -65    | -209  | -25    | -47    | -52    | -70    | -1,359 | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| KY  | 6,160     | 9,933     | 3,996   | 541       | 2,294     | 3,979   | 18,534     | -12,823    | -47,906   | 250    | 164    | 43     | -46    | -65    | -209  | -25    | -47    | -52    | -70    | -1,359 | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| MS  | 5,110     | 1,613     | -1,638  | 430       | 3         | -2,209  | 4,724      | -22,319    | -50,903   | -48    | 134    | -41    | -35    | -46    | -209  | -25    | -47    | -52    | -70    | -1,359 | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| NC  | -11,899   | -1,049    | 4,001   | 32,734    | -8,389    | -3,966  | 162,165    | -226,057   | -31,411   | -196   | 174    | 23     | -228   | -364   | -304  | -183   | -198   | -111   | -961   | -302   | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| SC  | 7,825     | 2,755     | -2,255  | -462      | -382      | -3,293  | 5,731      | -42,483    | -75,061   | -63    | 156    | -59    | -40    | -53    | -272  | -29    | -40    | -166   | -48    | -56    | -594   | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| TN  | 9,554     | 4,316     | -2,577  | 2,545     | 2,589     | -4,433  | 11,811     | -39,318    | -98,246   | -75    | 232    | -82    | -37    | -87    | -385  | -22    | -68    | -238   | -73    | -52    | -766   | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| VA  | 14,020    | 4,464     | -3,744  | -2,895    | -340      | -6,887  | 140,001    | -47,766    | -137,084  | 962    | 165    | -110   | -47    | -62    | -420  | -30    | -42    | -237   | -83    | -94    | -1,104 | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| WV  | 2,122     | 656       | -723    | -1,995    | -766      | -1,410  | -6,416     | -18,407    | -30,217   | -57    | 49     | -24    | -32    | -42    | -97   | -22    | -29    | -59    | -62    | -217   | 2018   | 2009 | 2018 | 2018 | 2009   | 2018 | 2009 | 2018 | 2009 | 2018 |      |
| VISTAS  | 135,680   | 74,570    | -3,846  | 85,346    | 20,462    | -29,215 | 798,301    | -279,194   | -676,850  | 2,448  | 2,222  | -435   | 367    | -114   | -2,683  | 219    | -130   | -1,764 | 1,123  | 466    | -4732  | 2018 | 2009 | 2018 | 2018   | 2009 | 2018 | 2009 | 2018 | 2009 | 2018 |
| Emissions Change (Base G - Base F/Base F, Annual %) - Positive Value Indicates Increase from Base F |           |           |         |           |           |         |            |            |           |        |        |        |        |        | Emissions Change (Base G - Base F/Base F, Annual %) - Positive Value Indicates Increase from Base F |        |        |        |        |        |        |      |      |      |        |      |      |      |      |      |      |
| VOC   |           |           |         |           | NOx       |         |            |            |           | CO     |        |        |        |        | SO2   |        |        |        |        | PM-10  |        |      |      |      | PM-2.5 |      |      |      |      |      |      |
| FIPSSST   | 2002      | 2009      | 2018    | 2002      | 2009      | 2018    | 2002       | 2009       | 2018      | 2002   | 2009   | 2018   | 2002   | 2009   | 2018  | 2002   | 2009   | 2018   | 2002   | 2009   | 2018   | 2002 | 2    |      |        |      |      |      |      |      |      |

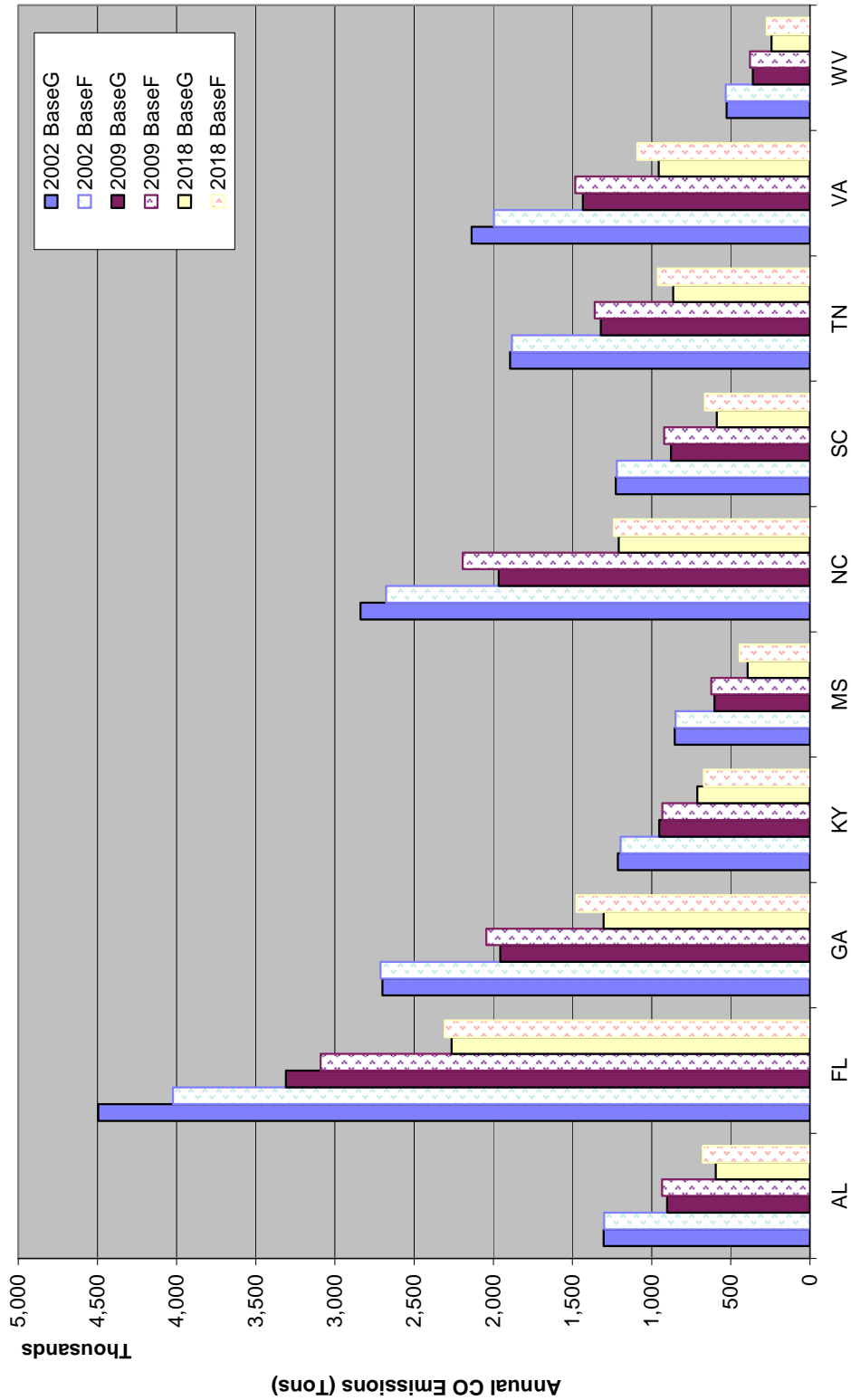


### Annual Onroad Emissions Comparison



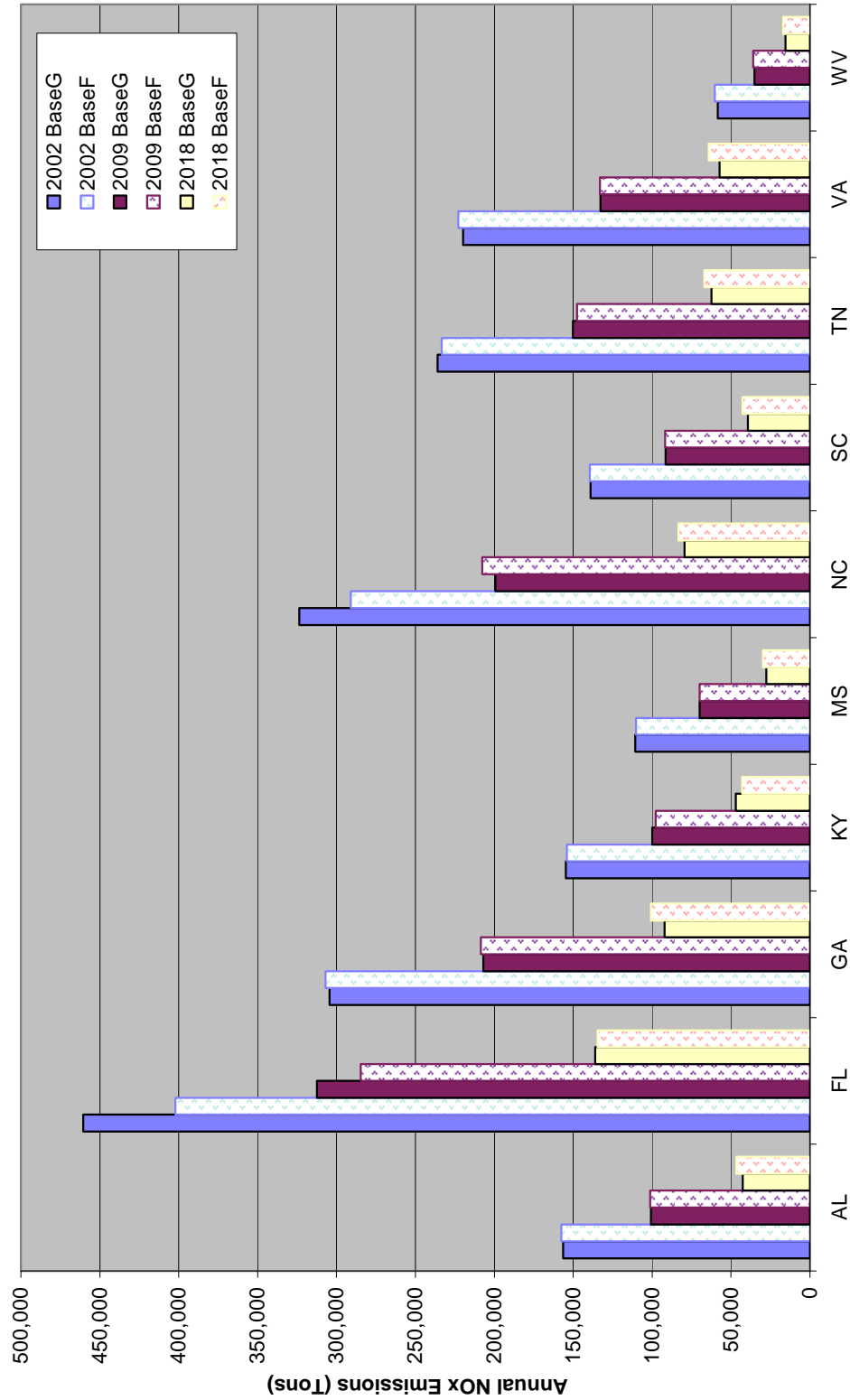


### Annual Onroad Emissions Comparison



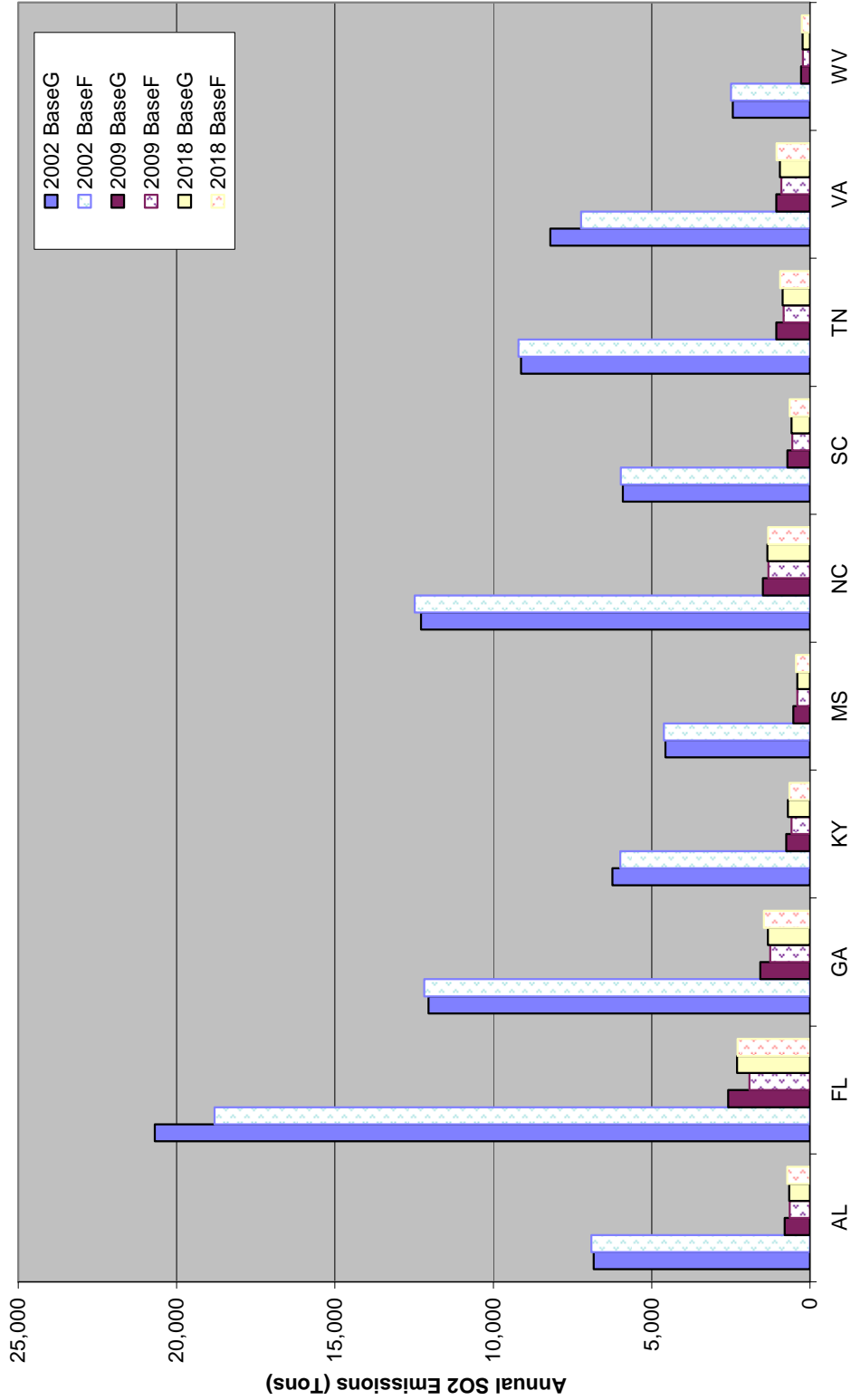


### Annual Onroad Emissions Comparison



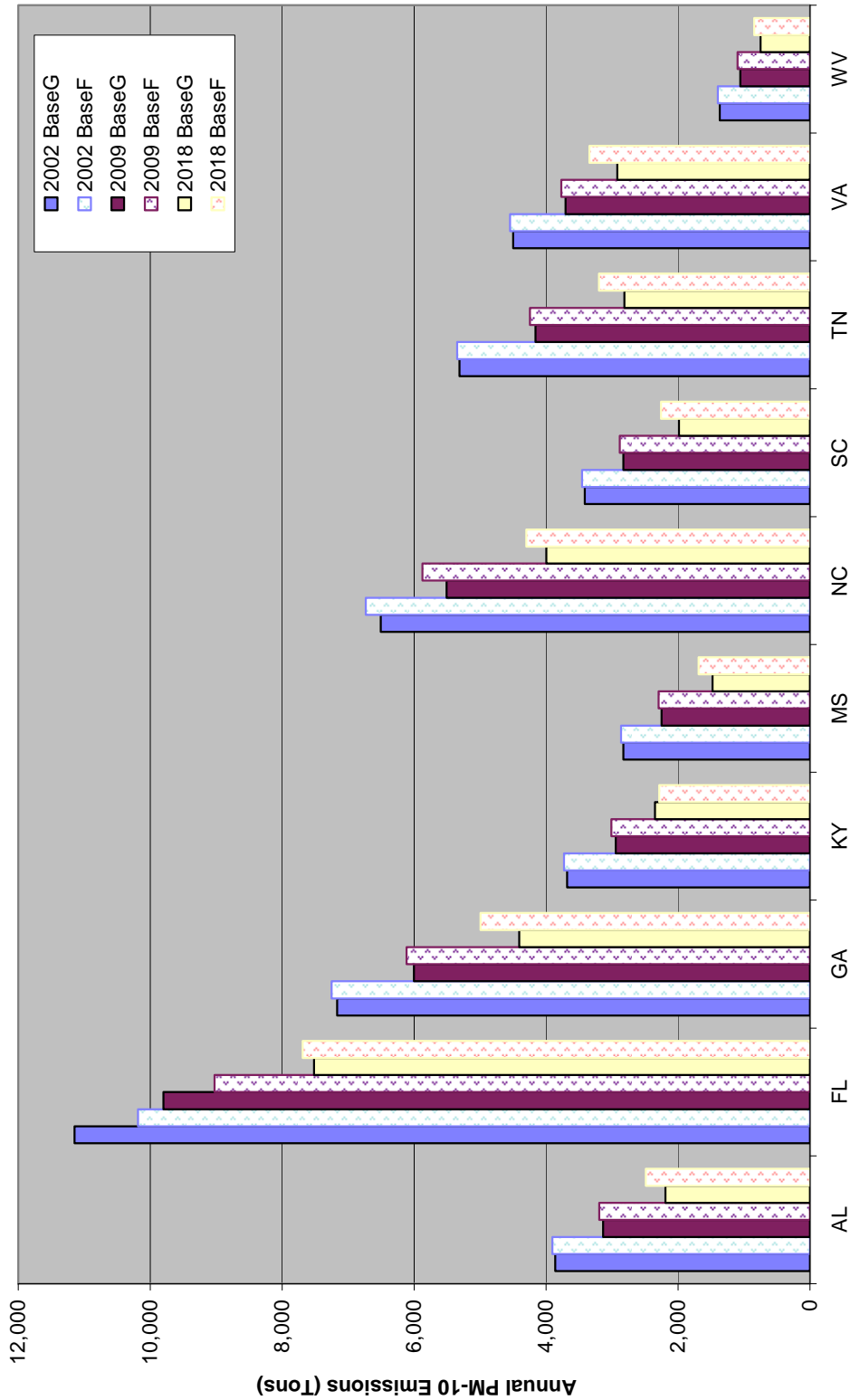


### Annual Onroad Emissions Comparison



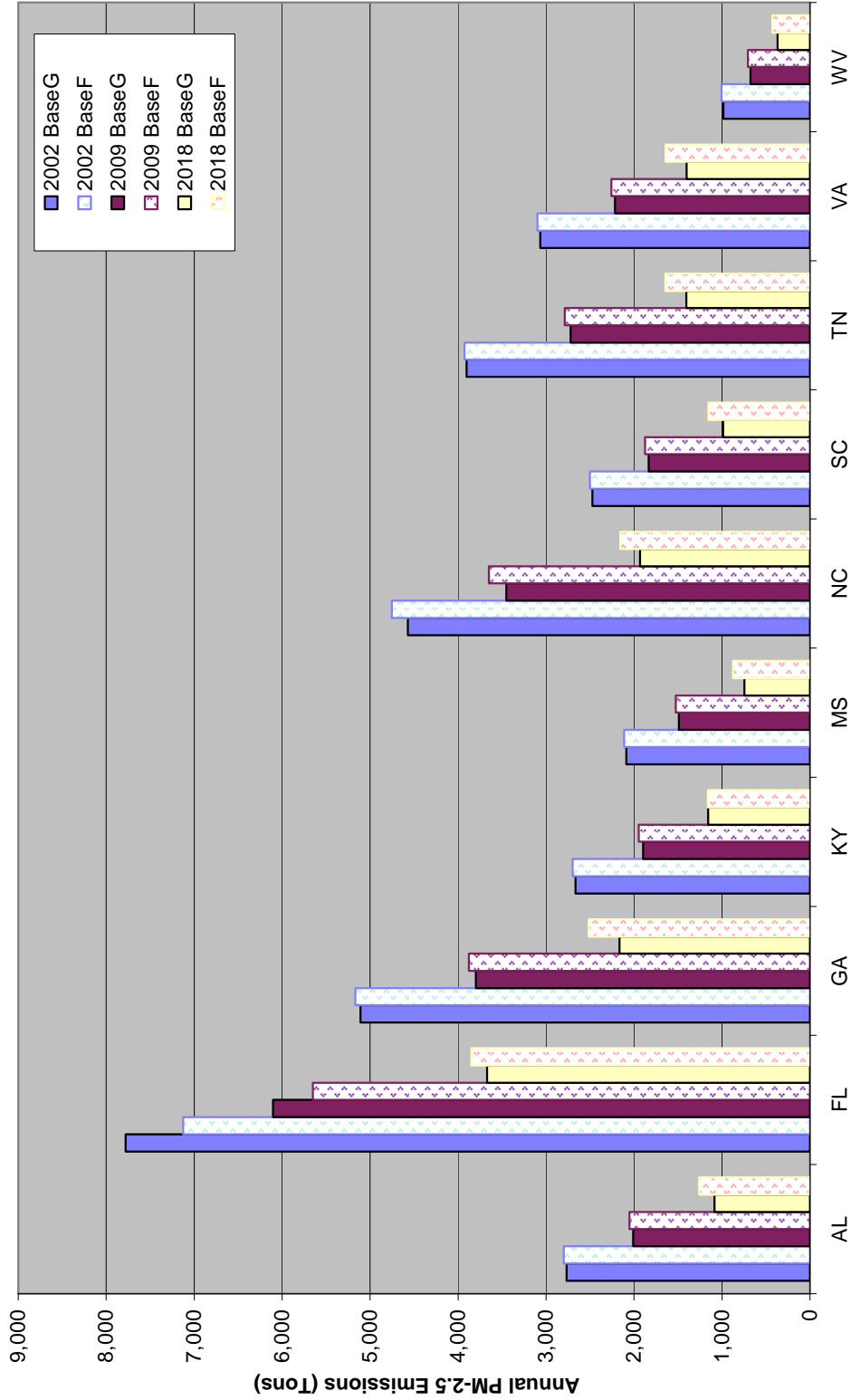


### Annual Onroad Emissions Comparison



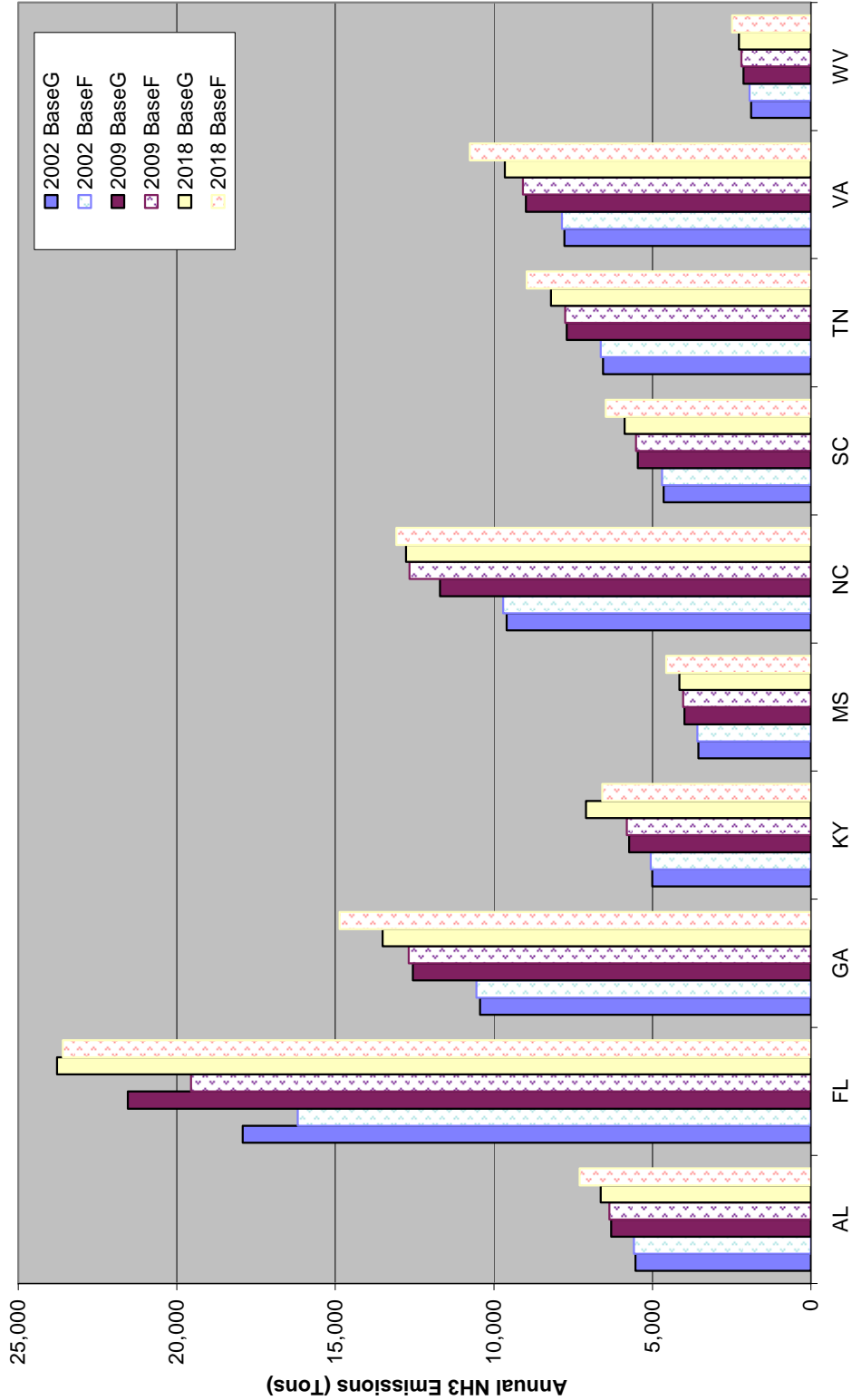


### Annual Onroad Emissions Comparison





### Annual Onroad Emissions Comparison





**APPENDIX G:**

**CONVERSION OF MRPO BaseM  
POINT SOURCE DATA  
TO SMOKE INPUT FORMAT**



## MEMORANDUM

To: Pat Brewer, VISTAS  
From: Gregory Stella, Alpine Geophysics, LLC  
Re: Conversion of MRPO BaseM Point Source Data to SMOKE Input Format  
Date: 13 February 2008

---

The Midwest Regional Planning Organization (MRPO) periodically produces a five State emission inventory for Illinois, Indiana, Michigan, Wisconsin, and Ohio. These data are used as the basis for various MRPO modeling and regulatory analyses. These data are prepared with the help of each State's emission inventory divisions and are felt to be the most representative account for emissions activities for those States at any one time.

The most recent version prepared and distributed by MRPO is currently called BaseM. Associated with this 2005 base year inventory release is a set of growth and control factors that are used to additionally simulate future year conditions under "On-The-Books" (base case or known control programs requirements to be implemented in future years) or incremental control situations to test sensitivity or strategies which would be implemented in whole or in part during the same future years.

The purpose of this document is to detail the technical steps that were made as part of the conversion of the MRPO BaseM point sources files (electric generating unit [EGU] and non-EGU) into IDA format for ASIP PM-2.5 CAMx modeling of the future year 2009. Because of the timing and complications relative to converting multiple and various emission files for all source types, it was determined that only point source emissions would be converted for processing at this time.

### Data Sources and Description

A series of data files and associated documentation was obtained from MRPO staff in 2007. These files were the input data sets for base year 2005 and growth and control factors related to MRPO's BaseM and Round 5 inventories<sup>6</sup>. Because of the emission processing tools that MRPO currently executes for its analyses, these files are in formats that are not read by the SMOKE emissions processor currently in use by VISTAS/ASIP modelers (contract teams and participating states). Alpine Geophysics, under the Emissions Inventory Technical Advisor contract, was asked to obtain and convert these data into the formats that could be used by these modeling agencies.

Through additional contact with MRPO staff, the base year 2005 non-EGU point source files and associated growth and control factors necessary to forecast the data to 2009 base case conditions were identified and extracted from the originally provided data. EGU sources were identified to be already prepared for the future year (2010 substituted for 2009) and were based on recent IPM 3.0 model runs with incremental adjustment made by MRPO states to best reflect expected emission controls and operating conditions. The "will do" simulation series for EGUs was identified as "egu5b\_2010."

The main purpose of the SMOKE conversion task was to prepare five state emission inventories provided in National Input Format (NIF) format into the IDA format required by the SMOKE model for the criteria pollutants VOC, NOx, CO, SO2, PM-10, PM-2.5, and NH3. Annual emissions were taken directly from the NIF structured inventories with no alternate temporal calculations performed (e.g., estimate seasonal emissions from annual or annual from seasonal). The temporal allocation module of the SMOKE emissions processor was intended to be used to further define temporal distribution of these emissions.

---

<sup>6</sup> [http://www.ladco.org/tech/emis/r5/round5\\_reports.htm](http://www.ladco.org/tech/emis/r5/round5_reports.htm)



No quality assurance (QA) related to the reported values in the MRPO was conducted (e.g., it was assumed that reported emission levels were correct) and therefore the QA focus of these tasks was to maintain the integrity of the mass files in the conversion to IDA.

Each set of NIF structured data had a unique set of relational tables necessary to maintain the information required in each source sector based on its reporting requirements. Alpine had previously developed scripts to read the information from each of these relational data sets and convert them to the IDA structures required by this task. Prior to and after each major source sector was converted from NIF to IDA, we developed a list of emission summary reports to check that the emissions input into the conversion process were the same as output into the IDA formatted files.

### **Non-EGU Point Source Conversion**

Non-EGU point source emissions from 2005 BaseM were converted to future year 2009 IDA format using the annual emission records directly from the NIF structured data sets and associated SCC growth factors and unit, facility, county, state, or nationally applied controls<sup>7</sup>. These controls were applied in a hierarchical fashion starting with the most defined (unit-segment-pollutant level) through least defined (national-SCC-pollutant) and when a match was found during the implementation, no additional controls were sought or applied to that emission record. In other words, if a match were found at the unit-segment level of control, no additional controls were applied to that segment/pollutant combination again in the forecast process. This prevented multiple control programs from being implemented when the intent of the originally provided control files were to assign a single applicable reduction.

The Round 5 factors for point sources provided by MRPO were in the RPO Data Exchange Format (RPODx) and had growth and control factors available at the State, county, plant, unit, segment, stack, and SCC level of detail. In order to apply these factors in a fashion consistent with that of the MRPO utilized processing system and duplicative of how MRPO would have generated its BaseM forecasts, a hierarchical approach was utilized to match and assign growth and control values.

### **Growth Factor Application**

Using the 2005 EM table from the BaseM inventory files in NIF format, we first selected each emissions record for forecasting. In this conversion case, these EM records were limited to those emissions identified as annual using the NIF coding convention. As noted in the limitations section below, there oftentimes were emissions provided by MRPO in a summer season convention.

We next selected the base year for application as the RPODx for growth rates allows for the flexibility of input growth factors for multiple base year inventories. In this assignment, the base year was always 2005, as that was the base year provided by MRPO and the future year was 2009, as selected by ASIP.

The next step was to determine the growth basis for each individual emission record of the file. This “growth basis” is the key with which the growth factor is associated. For point sources, this key is based on a combination of FIPS, SCC, and pollutant codes. Multiple keys are calculated for each individual emission record and that key with the highest resolution of matching to the growth factor file using the hierarchy identified in Table 1 below is the one chosen to assign a growth rate to the base year emissions.

---

7

[http://www.ladco.org/tech/emis/r5/reports/LADCO%202005%20Base%20Yr%20Growth%20and%20Controls%20Report\\_Final.pdf](http://www.ladco.org/tech/emis/r5/reports/LADCO%202005%20Base%20Yr%20Growth%20and%20Controls%20Report_Final.pdf)



**Table 1.** Point Source Growth Factor Application Hierarchy.

| Order | Key or “Growth/Control Basis”              |
|-------|--|
| 1     | state/county code, 10-digit SCC, pollutant |
| 2     | state/county code, 10-digit SCC            |
| 3     | state code, 10-digit SCC, pollutant        |
| 4     | state code, 10-digit SCC                   |
| 5     | state/county code, pollutant               |
| 6     | state/county code                          |
| 7     | state code, pollutant                      |
| 8     | state code                                 |
| 9     | 10-digit SCC, pollutant                    |
| 10    | 10-digit SCC                               |
| 11    | Pollutant                                  |

Using the hierarchical application, growth basis, and dates (base year and alternate year), we matched each emission record to the growth table to obtain a growth factor. The factors are defined in the growth table as a multiplier for the base year period that calculates the alternate year of interest. In other words, multiplying the base year emissions value by the growth factor provides you with the emissions for the alternate year of interest.

When no match from any of the hierarchical keys was identified, a growth rate of 1.00 (no growth) was assigned. This maintained the 2005 emission level in the future year inventory.

### Control Factor Application

Similar to the process identified above for the assignment and application of growth factors, the control factor assignment was based on a hierarchical key, this time, however, using FIPS, plantid, pointid, stackid, segment, SCC, and pollutant codes applied in a parallel process to the growth factor assignment.

Using the 2005 EM table from the BaseM inventory files in NIF format, we selected each annual emissions record for forecasting. We next selected the base year for application, and again, the base year was always 2005, as that was the base year provided by MRPO.

Once the base year was identified, we determined the alternate year for our forecast. Depending on the specific year used in each conversion, growth rates were limited to those with a base year of 2005 and a future year *less than or equal to* that of our forecast. This variation in method is intended to allow us to identify all controls implemented prior to or during the year of interest and will consider them as viable options at the latest provided level of control.

In other words, since we selected 2009 as the future year of choice, we limit the control factor table to control strategies implemented during or prior to 2009. If in our matching to the control factor table we find that for a certain control basis key there is no match because a program may have been fully implemented in a prior year (say 2007), then we do not want to exclude this reduction from our forecast. Additionally, if we find that there are multiple entries in the control factor table because of incremental implementation of a rule, we select the closest year to that of our intended forecast. So if a particular rule was incrementally implemented from 2005 through 2009 and there were control records available for each year in between, we would select the record with the latest year to apply in our forecast.

The next step was to determine the control basis for each individual emission record of the file. This “control basis” is the key with which the control strategy or technology is associated. Although we developed code to support the hierarchical application of control factors for the BaseM emissions, all control factors provided by MRPO in the Round 5 files were segment-SCC-pollutant specific. This eliminated the need for a search on the key that has the greatest resolution as all matches were at the segment-SCC-pollutant level.



Using the control basis and dates (base year and alternate year), we matched each emission record to the control table to obtain a control factor. The factors are defined in the control table as a group of values (control efficiency, rule effectiveness, and rule penetration) for the future year period that gets assigned to an uncontrolled future year emission value. In other words, we first “backed out” existing base year controls from our future year emissions estimate and then multiplied this uncontrolled value by the control factors for the alternate year of interest. These calculations are defined in Equations 1 and 2 below.

**Equation 1.** Uncontrolled emissions calculation.

$$\text{Emiss}_{\text{Unc}} = \text{Emiss}_{\text{Base}} / (1 - ((\text{CE}_{\text{Base}} / 100) * (\text{RE}_{\text{Base}} / 100) * (\text{RP}_{\text{Base}} / 100)))$$

Where,

|                              |                                |
|------------------------------|--------------------------------|
| $\text{Emiss}_{\text{Unc}}$  | = Uncontrolled emissions       |
| $\text{Emiss}_{\text{Base}}$ | = Base year emissions          |
| $\text{CE}_{\text{Base}}$    | = Base year control efficiency |
| $\text{RE}_{\text{Base}}$    | = Base year rule effectiveness |
| $\text{RP}_{\text{Base}}$    | = Base year rule penetration   |

**Equation 2.** Application of new control calculation.

$$\text{Emiss}_{\text{New}} = \text{Emiss}_{\text{Unc}} * (1 - ((\text{CE}_{\text{New}} / 100) * (\text{RE}_{\text{New}} / 100) * (\text{RP}_{\text{New}} / 100)))$$

Where,

|                             |                                  |
|-----------------------------|----------------------------------|
| $\text{Emiss}_{\text{New}}$ | = Future year emissions          |
| $\text{Emiss}_{\text{Unc}}$ | = Uncontrolled emissions         |
| $\text{CE}_{\text{New}}$    | = Future year control efficiency |
| $\text{RE}_{\text{New}}$    | = Future year rule effectiveness |
| $\text{RP}_{\text{New}}$    | = Future year rule penetration   |

When no match from any of the hierarchical keys was identified, the same control efficiency, rule efficiency, and rule penetration values from the base year inventory were used in the calculation and the only change in emissions would have been the result of growth factor application. In instances where PM-10 annual emissions were found to be less than PM-2.5 annual emission values, the PM-2.5 emission values were changed to equal that of PM-10.

**EGU Point Source Conversion**

EGU point source emissions from the egu5b\_2010 scenario (2010 IPM 3.0 run with modifications) were converted to year 2009 IDA format using the annual emission records directly from the NIF structured data sets. Since these emissions already accounted for growth and control application, no additional modifications were required.

One ASIP requested modification for its PM-2.5 CAMx modeling was to adjust the 2009 file to match W. H. Sammis facility’s planned response to the control requirements from the consent decree USA vs. Ohio Edison; Civil Action No: 2:99-CV-1181; March 18, 2005. These changes were not implemented in the ASIP 2009 CMAQ runs. These adjustments for SO<sub>2</sub> are noted in Table 2 below.

Alpine Geophysics, LLC -- 387 Pollard Mine Road -- Burnsville, NC 28714 -- (828) 675-9045



**Table 2.** SO<sub>2</sub> Control Requirements from USA vs. Ohio Edison Consent Decree

|                  |  |
|------------------|--|
| <b>Units 1-4</b> | Induct Scrubbing<br>50% removal (1.1 lbs/MMBtu)<br>At least one unit by Sept. 30, 2008<br>Second unit by Dec. 31, 2008<br>Other two units by Dec. 31, 2009 |
| <b>Unit 5</b>    | Flash Dryer Absorber or Electro-Catalytic Oxidation no later than Dec. 31, 2008<br>50% removal (1.1 lbs/MMBtu)   |
| <b>Units 6/7</b> | Scrubber no later than December 31, 2010<br>95% removal (0.13 lbs/MMBtu)   |
| <b>Plantwide</b> | Emission cap of 101,500 by end of 2009<br>Emission cap of 101,500 by end of 2010<br>Emission cap of 29,900 by end of 2011                                  |

**Conversion Limitations**

As noted above, Alpine limited our conversion to all records in the MRPO point source files that were identified as annual. In some cases the MRPO NIF files had additional non-annual summer season emission records configured as a higher percentage than the annual average that was used in our emissions comparison.

In other words, the MRPO file sometimes had two emission record types that it uses for its modeling; one for the summer period and one for the rest of the year. Since SMOKE uses temporal allocation factors to make this summer/winter split, our converted values do not match MRPO's summertime reports. We see a high percentage difference in the Alpine converted data compared to the MRPO output reports in these two States for the July 12 example for this reason.

Since we confirmed this difference and reason for this difference in the 2005 data sets with MRPO, our objective for QA on the projections also included delta emissions from the projection year to the base year. Although the absolute daily emission values (in tpd) were found to be different as noted above, in all cases, the difference between 2005 and the projection year calculations as made by Alpine was within confidence ranges of the ratio of future year to base year as posted by MRPO. See Table 3 below. For this reason, we were convinced that our projection methodology is capturing the growth and control factors that MRPO applied in its emissions modeling.

Alpine Geophysics, LLC -- 387 Pollard Mine Road -- Burnsville, NC 28714 -- (828) 675-9045



**Table 3.** Emissions Comparison of ASIP Converted and MRPO Non-EGU Emissions.

## Comparison of ASIP Converted and MRPO Non-EGU Emissions

| FIPSST State |           | ASIP 2009 Annual Emissions (Tons/Year) |                |                |                 |               |               |
|--------------|-----------|--|----------------|----------------|-----------------|---------------|---------------|
|              |           | VOC                                    | NOX            | CO             | SO <sub>2</sub> | PM-10         | PM-2.5        |
| 17           | Illinois  | 61,760                                 | 85,142         | 71,725         | 150,506         | 20,315        | 6,256         |
| 18           | Indiana   | 48,287                                 | 65,132         | 339,642        | 82,040          | 22,118        | 12,774        |
| 26           | Michigan  | 36,753                                 | 85,014         | 67,564         | 55,435          | 13,235        | 6,567         |
| 39           | Ohio      | 31,530                                 | 67,275         | 212,626        | 116,942         | 15,930        | 10,443        |
| 55           | Wisconsin | 31,377                                 | 36,827         | 43,014         | 60,955          | 456           | 43            |
| <b>MRPO</b>  |           | <b>209,707</b>                         | <b>339,390</b> | <b>734,570</b> | <b>465,878</b>  | <b>72,054</b> | <b>36,082</b> |

| FIPSST State |           | ASIP 2009 July 12 Summer Daily Emissions (Tons/Day) |                |                |                 |              |              |
|--------------|-----------|---|----------------|----------------|-----------------|--------------|--------------|
|              |           | VOC   | NOX            | CO             | SO <sub>2</sub> | PM-10        | PM-2.5       |
| 17           | Illinois  | 222.3   | 315.1          | 250.9          | 412.3           | 55.6         | 17.1         |
| 18           | Indiana   | 132.3   | 178.4          | 930.5          | 224.8           | 60.6         | 35.0         |
| 26           | Michigan  | 115.8   | 232.4          | 193.6          | 144.9           | 40.8         | 19.3         |
| 39           | Ohio      | 86.4  | 184.3          | 582.5          | 320.4           | 43.6         | 28.6         |
| 55           | Wisconsin | 86.0  | 100.9          | 117.8          | 167.0           | 1.3          | 0.1          |
| <b>MRPO</b>  |           | <b>642.7</b>  | <b>1,011.1</b> | <b>2,075.4</b> | <b>1,269.4</b>  | <b>202.0</b> | <b>100.2</b> |

| FIPSST State |           | 2009 July 12 Summer Daily Emissions (Tons/Day) |              |                |                 |              |              |
|--------------|-----------|--|--------------|----------------|-----------------|--------------|--------------|
|              |           | VOC  | NOX          | CO             | SO <sub>2</sub> | PM-10        | PM-2.5       |
| 17           | Illinois  | 218.1  | 217.8        | 255.7          | 335.0           | 56.0         | 16.8         |
| 18           | Indiana   | 137.2  | 175.2        | 888.8          | 216.2           | 60.7         | 36.5         |
| 26           | Michigan  | 119.1  | 242.0        | 206.5          | 148.6           | 43.6         | 20.3         |
| 39           | Ohio      | 87.1   | 166.3        | 540.7          | 288.0           | 43.0         | 27.6         |
| 55           | Wisconsin | 87.7   | 92.9         | 120.0          | 152.1           | 23.2         | 0.1          |
| <b>MRPO</b>  |           | <b>649.2</b>                                   | <b>894.2</b> | <b>2,011.7</b> | <b>1,139.9</b>  | <b>226.5</b> | <b>101.3</b> |

| FIPSST State |           | ASIP 2009 July 12 Summer Daily Emissions (% of MRPO Total) |             |             |                 |             |             |
|--------------|-----------|--|-------------|-------------|-----------------|-------------|-------------|
|              |           | VOC  | NOX         | CO          | SO <sub>2</sub> | PM-10       | PM-2.5      |
| 17           | Illinois  | 29.5%  | 25.1%       | 9.8%        | 32.3%           | 28.2%       | 17.3%       |
| 18           | Indiana   | 23.0%  | 19.2%       | 46.2%       | 17.6%           | 30.7%       | 35.4%       |
| 26           | Michigan  | 17.5%  | 25.0%       | 9.2%        | 11.9%           | 18.4%       | 18.2%       |
| 39           | Ohio      | 15.0%  | 19.8%       | 28.9%       | 25.1%           | 22.1%       | 28.9%       |
| 55           | Wisconsin | 15.0%  | 10.9%       | 5.9%        | 13.1%           | 0.6%        | 0.1%        |
| <b>MRPO</b>  |           | <b>100%</b>  | <b>100%</b> | <b>100%</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

| FIPSST State |           | 2009 July 12 Summer Daily Emissions (% of MRPO Total) |               |               |                 |               |               |
|--------------|-----------|---|---------------|---------------|-----------------|---------------|---------------|
|              |           | VOC   | NOX           | CO            | SO <sub>2</sub> | PM-10         | PM-2.5        |
| 17           | Illinois  | 33.6%   | 24.4%         | 12.7%         | 29.4%           | 24.7%         | 16.6%         |
| 18           | Indiana   | 21.1%   | 19.6%         | 44.2%         | 19.0%           | 26.8%         | 36.0%         |
| 26           | Michigan  | 18.3%   | 27.1%         | 10.3%         | 13.0%           | 19.2%         | 20.0%         |
| 39           | Ohio      | 13.4%   | 18.6%         | 26.9%         | 25.3%           | 19.0%         | 27.2%         |
| 55           | Wisconsin | 13.5%   | 10.4%         | 6.0%          | 13.3%           | 10.2%         | 0.1%          |
| <b>MRPO</b>  |           | <b>100.0%</b>   | <b>100.0%</b> | <b>100.0%</b> | <b>100.0%</b>   | <b>100.0%</b> | <b>100.0%</b> |



**APPENDIX H:**

**COMPARISON OF EGU CONTROLS FOR COAL AND OIL/GAS UNITS  
BASED ON IPM MODELING AND STATE-PROVIDED INFORMATION  
FOR THE BASE G/G2 INVENTORY**



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                       | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|-------------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                     |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 01033 | TVA COLBERT                         | 47      | 1      | 0010    | 010     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 2      | 0010    | 011     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 3      | 0010    | 012     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 4      | 0010    | 013     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 5      | 0010    | 014     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 01055 | ALABAMA POWER COMPANY GADSDEN       | 7       | 1      | 0002    | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 01055 | ALABAMA POWER COMPANY GADSDEN       | 7       | 2      | 0002    | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 01063 | ALABAMA POWER COMPANY GREENE COUNTY | 10      | 1      | 0001    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 01063 | ALABAMA POWER COMPANY GREENE COUNTY | 10      | 2      | 0001    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 1      | 0008    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 2      | 0008    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 3      | 0008    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 4      | 0008    | 005     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 5      | 0008    | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 6      | 0008    | 007     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 7      | 0008    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 8      | 0008    | 009     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 4      | 010730011 | 001     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 3      | 010730011 | 002     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 2      | 010730011 | 004     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 1      | 010730011 | 005     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 1      | 1001      | 002     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 2      | 1001      | 003     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 3      | 1001      | 004     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 4      | 1001      | 005     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | Scrubber              |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 5      | 1001      | 006     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 1      | 0005      | 002     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 2      | 0005      | 003     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 3      | 0005      | 004     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 4      | 0005      | 005     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 5      | 0005      | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 01127 | ALABAMA POWER COMPANY GORGAS               | 8       | 6      | 0001      | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS               | 8       | 7      | 0001      | 005     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS               | 8       | 8      | 0001      | 006     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 9      | 0001    | 007     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 10     | 0001    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 1      | 0001    | 002     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 2      | 0001    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 3      | 0001    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK6   |         |         | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK7   |         |         | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK8   | 0010005 | 7       |            | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | CITY OF GAINESVILLE, GRU DEERHAVEN          | 663     | B1     | 0010006 | 3       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12001 | CITY OF GAINESVILLE, GRU DEERHAVEN          | 663     | B2     | 0010006 | 5       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 12005 | GULF POWER COMPANY LANSING SMITH PLANT      | 643     | 1      | 0050014 | 1       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 12005 | GULF POWER COMPANY LANSING SMITH PLANT      | 643     | 2      | 0050014 | 2       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 12009 | FLORIDA POWER & LIGHT (PCC) CAPE CANAVERAL  | 609     | PCC1   | 0090006 | 1       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12009 | FLORIDA POWER & LIGHT (PCC) CAPE CANAVERAL  | 609     | PCC2   | 0090006 | 2       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE1   | 0110036 | 1       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE2   | 0110036 | 2       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE3   | 0110036 | 3       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES  | 617     | PPE4   | 0110036   | 4       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER        | 628     | 1      | 0170004   | 1       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER        | 628     | 2      | 0170004   | 2       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER        | 628     | 5      | 0170004   | 3       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER        | 628     | 4      | 0170004   | 4       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | SAINT JOHNS RIVER                            | 207     | 1      | 0310045-A | 16      |            | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | SAINT JOHNS RIVER                            | 207     | 2      | 0310045-A | 17      |            | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | NORTHSIDE                                    | 667     | 2A     | 0310045-B | 26      | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12031 | NORTHSIDE                                    | 667     | 1A     | 0310045-B | 27      | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12031 | NORTHSIDE                                    | 667     | 3      | 0310045-B | 3       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  |
| 12031 | CEDAR BAY COGENERATION INC.                  | 10672   | GEN1   | 0310337   | 1       | Coal Steam | None                     | SNCR                  | None                     | SNCR                  | Scrubber                 | Scrubber              |
| 12031 | CEDAR BAY COGENERATION INC.                  |         |        | 0310337   | 2       |            |                          |                       |                          |                       |                          |                       |
| 12031 | CEDAR BAY COGENERATION INC.                  |         |        | 0310337   | 3       |            |                          |                       |                          |                       |                          |                       |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 1      | 0330045   | 1       |            |                          |                       |                          |                       |                          |                       |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 2      | 0330045   | 2       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 3      | 0330045   | 3       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 4      | 0330045   | 4       | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                   | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type    | Post-Combustion Controls |                         |                          |                         |                          |                         |                          |                         |
|-------|---|---------|--------|---------|---------|---------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
|       |   |         |        |         |         |               | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls   | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls   | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls   | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls   |
| 12033 | GULF POWER COMPANY<br>CRIST ELECTRIC GENERATION | 641     | 5      | 0330045 | 5       | Coal<br>Steam | None                     | None                    | None                     | None                    | None                     | None                    | Scrubber                 | None                    |
| 12033 | GULF POWER COMPANY<br>CRIST ELECTRIC GENERATION | 641     | 6      | 0330045 | 6       | Coal<br>Steam | SNCR                     | SNCR                    | SNCR                     | SNCR                    | None                     | None                    | Scrubber                 | None                    |
| 12033 | GULF POWER COMPANY<br>CRIST ELECTRIC GENERATION | 641     | 7      | 0330045 | 7       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | None                     | None                    | Scrubber                 | Scrubber                |
| 12053 | Central Power and Lime<br>Incorporated          | 10333   | GEN1   | 0530021 | 18      | Coal<br>Steam | None                     | None                    | None                     | None                    | Scrubber                 | Scrubber                | Scrubber                 | Scrubber                |
| 12057 | TAMPA ELECTRIC COMPANY<br>BIG BEND STATION      | 645     | BB01   | 0570039 | 1       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | Scrubber                 | Scrubber                | Scrubber                 | Scrubber                |
| 12057 | TAMPA ELECTRIC COMPANY<br>BIG BEND STATION      | 645     | BB02   | 0570039 | 2       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | Scrubber                 | Scrubber                | Scrubber                 | Scrubber                |
| 12057 | TAMPA ELECTRIC COMPANY<br>BIG BEND STATION      | 645     | BB03   | 0570039 | 3       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | Scrubber                 | Scrubber                | Scrubber                 | Scrubber                |
| 12057 | TAMPA ELECTRIC COMPANY<br>BIG BEND STATION      | 645     | BB04   | 0570039 | 4       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | Scrubber                 | Scrubber                | Scrubber                 | Scrubber                |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB01   | 0570040 | 1       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB02   | 0570040 | 2       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB03   | 0570040 | 3       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB04   | 0570040 | 4       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB05   | 0570040 | 5       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION   | 646     | GB06   | 0570040 | 6       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12061 | CITY OF VERO BEACH                              | 693     |        | 0610029 | 1       | O/G<br>Steam  | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement |
| 12061 | CITY OF VERO BEACH                              | 693     | 3      | 0610029 | 3       | O/G<br>Steam  | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12061 | CITY OF VERO BEACH                              | 693     | 4      | 0610029 | 4       | O/G<br>Steam  | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |

Appendix H

254

MACTEC, Inc.



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 12063 | GULF POWER COMPANY SCHOLZ                   | 642     | 1      | 0630014 | 1       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12063 | GULF POWER COMPANY SCHOLZ                   | 642     | 2      | 0630014 | 2       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12073 | CITY OF TALLAHASSEE ARVAH B.HOPKINS         | 688     | 1      | 0730003 | 1       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12073 | CITY OF TALLAHASSEE ARVAH B.HOPKINS         | 688     | 2      | 0730003 | 4       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12081 | FLORIDA POWER & LIGHT (PMT) MANATEE POWER   | 6042    | PMT1   | 0810010 | 1       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12081 | FLORIDA POWER & LIGHT (PMT) MANATEE POWER   | 6042    | PMT2   | 0810010 | 2       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12085 | FLORIDA POWER & LIGHT (PMR) FPL / MARTIN    | 6043    | PMR1   | 0850001 | 1       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | None                  | No Operation             | No Operation          |
| 12085 | FLORIDA POWER & LIGHT (PMR) FPL / MARTIN    | 6043    | PMR2   | 0850001 | 2       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | None                  | No Operation             | No Operation          |
| 12085 | INDIANTOWN COGENERATION, L.P.               | 50976   | GEN1   | 0850102 | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12086 | FLORIDA POWER & LIGHT (PCU) CUTLER POWER    | 610     | PCU5   | 0250001 | 3       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12086 | FLORIDA POWER & LIGHT (PCU) CUTLER POWER    | 610     | PCU6   | 0250001 | 4       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12086 | FLORIDA POWER & LIGHT (PTF) TURKEY POINT    | 621     | PTP1   | 0250003 | 1       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | None                  | No Operation             | No Operation          |
| 12086 | FLORIDA POWER & LIGHT (PTF) TURKEY POINT    | 621     | PTP2   | 0250003 | 2       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | None                  | No Operation             | No Operation          |
| 12095 | ORLANDO UTILITIES COMMISSION STANTON ENERGY | 564     | 1      | 0950137 | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12095 | ORLANDO UTILITIES COMMISSION STANTON ENERGY | 564     | 2      | 0950137 | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12099 | FLORIDA POWER & LIGHT (PRV) RIVIERA POWE    | 619     | PRV3   | 0990042 | 3       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12099 | FLORIDA POWER & LIGHT (PRV) RIVIERA POWE    | 619     | PRV4   | 0990042 | 4       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 12099 | CITY OF LAKE WORTH UTILITIES<br>TOM G. SMITH | 673     | S-1    | 0990045 | 7       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12099 | CITY OF LAKE WORTH UTILITIES<br>TOM G. SMITH | 673     | S-3    | 0990045 | 9       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12101 | PROGRESS ENERGY FLORIDA ANCLOTE              | 8048    | 1      | 1010017 | 1       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | No Operation          |
| 12101 | PROGRESS ENERGY FLORIDA ANCLOTE              | 8048    | 2      | 1010017 | 2       | O/G Steam  | None                     | None                  | No Operation             | No Operation          | None                     | No Operation          |
| 12103 | PROGRESS ENERGY FLORIDA BARTOW               | 634     | 1      | 1030011 | 1       | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 12103 | PROGRESS ENERGY FLORIDA BARTOW               | 634     | 2      | 1030011 | 2       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12103 | PROGRESS ENERGY FLORIDA BARTOW               | 634     | 3      | 1030011 | 3       | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 12105 | LAKELAND ELECTRIC CHARLES LARSEN             | 675     | 7      | 1050003 | 4       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12105 | LAKELAND ELECTRIC C.D. MCINTOSH, JR.         | 676     | 3      | 1050004 | 6       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12107 | SEMINOLE ELECTRIC COOPERATIVE, INC.          | 136     | 1      | 1070025 | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12107 | SEMINOLE ELECTRIC COOPERATIVE, INC.          | 136     | 2      | 1070025 | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12111 | FT PIERCE UTILITIES AUTHORITY FT PIERCE      | 658     | 7      | 1110003 | 7       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12111 | FT PIERCE UTILITIES AUTHORITY FT PIERCE      | 658     | 8      | 1110003 | 8       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER       | 638     | 1      | 1210003 | 1       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER       | 638     | 2      | 1210003 | 2       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER       | 638     | 3      | 1210003 | 3       | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 12127 | FLORIDA POWER & LIGHT (PSN) SANFORD POWER    | 620     | PSN3   | 1270009 | 1       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID  | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |          |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 12127 | FLORIDA POWER & LIGHT (PSN) SANFORD POWER  | 620     | PSN4   | 1270009  | 2       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12129 | TALLAHASSEE CITY PURDOM GENERATING STATION | 689     | 7      | 1290001  | 7       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 1BLR   | 01500011 | SG01    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 2BLR   | 01500011 | SG02    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 3BLR   | 01500011 | SG03    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 4BLR   | 01500011 | SG04    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13021 | ARKWRIGHT                                  | 699     | 1      | 0002     | 1       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                  | 699     | 2      | 0002     | 2       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                  | 699     | 3      | 0002     | 3       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                  | 699     | 4      | 0002     | 4       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM             | 733     | 1      | 05100006 | SG01    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM             | 733     | 2      | 05100006 | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM             | 733     | 3      | 05100006 | SG03    | Coal Steam | None                     | None                  | None                     | SCR                   | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM             | 733     | 4      | 05100006 | SG04    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                  | 734     | 11     | 05100018 | 11      | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          |
| 13051 | RIVERSIDE                                  | 734     | 12     | 05100018 | 12      | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          |
| 13051 | RIVERSIDE                                  | 734     | 4      | 05100018 | 4       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                  | ORIS ID | BLR ID | SITE ID  | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |          |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 13051 | RIVERSIDE                                      | 734     | 5      | 05100018 | 5       | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                      | 734     | 6      | 05100018 | 6       | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13067 | GEORGIA POWER COMPANY, MCDONOUGH STEAM         | 710     | MB1    | 06700003 | SGM1    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13067 | GEORGIA POWER COMPANY, MCDONOUGH STEAM         | 710     | MB2    | 06700003 | SGM2    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y1BR   | 07700001 | SG01    | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y2BR   | 07700001 | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y3BR   | 07700001 | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y4BR   | 07700001 | SG04    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y5BR   | 07700001 | SG05    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y6BR   | 07700001 | SG06    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y7BR   | 07700001 | SG07    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     |        | 09500002 | SG01    |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     |        | 09500002 | SG02    |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     | 3      | 09500002 | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13103 | SAVANNAH ELECTRIC: MCINTOSH STEAM - ELECTRIC   | 6124    | 1      | 10300003 | SG01    | Coal Steam | None                     | None                  | None                     | SCR                   | None                     | None                  | None                     | None                  |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 1      | 11500003 | SG01    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 2      | 11500003 | SG02    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                  | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 3      | 11500003   | SG03    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 4      | 11500003   | SG04    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13127 | GEORGIA POWER COMPANY, MCMANUS STEAM-ELECTRIC  | 715     | 1      | 12700004   | SG01    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13127 | GEORGIA POWER COMPANY, MCMANUS STEAM-ELECTRIC  | 715     | 2      | 12700004   | SG02    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13149 | GEORGIA POWER COMPANY, WANSLEY STEAM-ELECTRIC  | 6052    | 1      | 14900001   | SG01    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13149 | GEORGIA POWER COMPANY, WANSLEY STEAM-ELECTRIC  | 6052    | 2      | 14900001   | SG02    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 1      | 20700008   | SG01    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 2      | 20700008   | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 3      | 20700008   | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 4      | 20700008   | SG04    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 13237 | GEORGIA POWER COMPANY, HARLLEE BRANCH          | 709     | 1      | 23700008   | SG01    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLLEE BRANCH          | 709     | 2      | 23700008   | SG02    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLLEE BRANCH          | 709     | 3      | 23700008   | SG03    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLLEE BRANCH          | 709     | 4      | 23700008   | SG04    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21015 | CINCINNATI GAS & ELECTRIC EAST BEND STAT       | 6018    | 2      | 2101500029 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 1      | 2104100010 | 001     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 2      | 2104100010 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                  | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 3      | 2104100010 | 003     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 4      | 2104100010 | 004     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT        | 1385    | 1      | 2104900003 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT        | 1385    | 2      | 2104900003 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT        | 1385    | 3      | 2104900003 | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT        | 1385    | 4      | 2104900003 | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21059 | OWENSBORO MUNICIPAL UTIL ELMER SMITH STATION   | 1374    | 1      | 2105900027 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21059 | OWENSBORO MUNICIPAL UTIL ELMER SMITH STATION   | 1374    | 2      | 2105900027 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION         | 1381    | C1     | 2109100003 | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION         | 1381    | C2     | 2109100003 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION         | 1381    | C3     | 2109100003 | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21101 | HENDERSON MUN POW & LIGHT                      | 1372    | 6      | 2110100012 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21101 | HENDERSON MUN POW & LIGHT                      | 1372    | 5      | 2110100012 | 5       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21111 | LOU GAS & ELEC, CANE RUN                       | 1363    | 4      | 0126       | 04      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, CANE RUN                       | 1363    | 5      | 0126       | 05      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, CANE RUN                       | 1363    | 6      | 0126       | 06      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                     | 1364    | 1      | 0127       | 01      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                             | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 21111 | LOU GAS & ELEC, MILL CREEK                | 1364    | 2      | 0127       | 02      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                | 1364    | 3      | 0127       | 03      | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                | 1364    | 4      | 0127       | 04      | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21127 | KENTUCKY POWER CO BIG SANDY PLANT         | 1353    | BSU1   | 2112700003 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21127 | KENTUCKY POWER CO BIG SANDY PLANT         | 1353    | BSU2   | 2112700003 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 1      | 2114500006 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 2      | 2114500006 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 3      | 2114500006 | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 4      | 2114500006 | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 5      | 2114500006 | 005     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 6      | 2114500006 | 006     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 7      | 2114500006 | 007     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 8      | 2114500006 | 008     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 9      | 2114500006 | 009     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 10     | 2114500006 | 016     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21161 | EAST KY POWER COOP SPURLOCK ST. MAYSVILLE | 6041    | 1      | 2116100009 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                             | ORIS ID | BLR ID | SITE ID      | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|--------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |              |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 21161 | EAST KY POWER COOP SPURLOCK ST. MAYSVILLE | 6041    | 2      | 2116100009   | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 1      | 2116700001   | 001     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 2      | 2116700001   | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 3      | 2116700001   | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | KENTUCKY UTILITIES CO GREEN RIVER STATION | 1357    | 4      | 2117700001   | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21177 | KENTUCKY UTILITIES CO GREEN RIVER STATION | 1357    | 5      | 2117700001   | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 1      | 2117700006   | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 2      | 2117700006   | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 3      | 2117700006   | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21183 | WESTERN KY ENERGY CORP WILSON STATION     | 6823    | W1     | 2118300069   | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21199 | EAST KY POWER COOP JOHN SHERMAN COOPER    | 1384    | 1      | 2119900005   | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21199 | EAST KY POWER COOP JOHN SHERMAN COOPER    | 1384    | 2      | 2119900005   | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 21223 | LOUISVILLE GAS & ELECTRIC TRIMBLE CO GEN  | 6071    | 1      | 2122300002   | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | HENDERSON STATION 2                       | 1382    | H1     | 2123300001-A | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | HENDERSON STATION 2                       | 1382    | H2     | 2123300001-A | 003     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | WESTERN KY ENERGY CORP REID               | 1383    | R1     | 2123300001-B | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21233 | WESTERN KY ENERGY CORP GREEN STATION      | 6639    | G1     | 2123300052   | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 21233 | WESTERN KY ENERGY CORP GREEN STATION         | 6639    | G2     | 2123300052 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21239 | KENTUCKY UTILITIES TYRONE FACILITY           | 1361    | 5      | 2123900001 | 005     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 28011 | ENTERGY MISSISSIPPI INC, DELTA PLANT         | 2051    | 1      | 2801100031 | 001     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28011 | ENTERGY MISSISSIPPI INC, DELTA PLANT         | 2051    |        | 2801100031 | 002     |            | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28011 | ENTERGY MISSISSIPPI INC, DELTA PLANT         | 2051    | 2      | 2801100031 | 003     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28011 | ENTERGY MISSISSIPPI INC, DELTA PLANT         | 2051    |        | 2801100031 | 004     |            | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28019 | CHOCTAW GENERATION LLP, RED HILLS GENERATING | 55076   | AA001  | 2801900011 | 001A    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 28019 | CHOCTAW GENERATION LLP, RED HILLS GENERATING | 55076   | AA002  | 2801900011 | 001B    |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 28035 | MISSISSIPPI POWER COMPANY, PLANT EATON       | 2046    |        | 2803500038 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28035 | MISSISSIPPI POWER COMPANY, PLANT EATON       | 2046    |        | 2803500038 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28035 | MISSISSIPPI POWER COMPANY, PLANT EATON       | 2046    |        | 2803500038 | 003     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON | 2049    | 1      | 2804700055 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON | 2049    | 2      | 2804700055 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON | 2049    | 3      | 2804700055 | 003     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON | 2049    | 4      | 2804700055 | 004     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON | 2049    | 5      | 2804700055 | 005     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name  | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 28049 | ENTERGY MISSISSIPPI INC, REX BROWN PLANT               | 2053    | 4      | 2804900112 | 001     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28049 | ENTERGY MISSISSIPPI INC, REX BROWN PLANT               | 2053    | 3      | 2804900112 | 002     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28059 | MISSISSIPPI POWER COMPANY, PLANT DANIEL                | 6073    | 1      | 2805900090 | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 28059 | MISSISSIPPI POWER COMPANY, PLANT DANIEL                | 6073    | 2      | 2805900090 | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 1      | 2806700035 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 2      | 2806700035 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 3      | 2806700035 | 003     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28073 | RD MORROW SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION | 6061    | 1      | 2807300021 | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 28073 | RD MORROW SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION | 6061    | 2      | 2807300021 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 28075 | MISSISSIPPI POWER COMPANY, PLANT SWEATT                | 2048    | 1      | 2807500032 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28075 | MISSISSIPPI POWER COMPANY, PLANT SWEATT                | 2048    | 2      | 2807500032 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28083 | GREENWOOD UTILITIES, HENDERSON STATION                 | 2062    | H1     | 2808300048 | 001     | O/G Steam  | None                     | None                  | None                     | None                  | No Operation             | No Operation          |
| 28083 | GREENWOOD UTILITIES, HENDERSON STATION                 | 2062    | H3     | 2808300048 | 003     | O/G Steam  | None                     | None                  | None                     | None                  | No Operation             | No Operation          |
| 28149 | ENTERGY MISSISSIPPI INC, BAXTER WILSON                 | 2050    | 1      | 2814900027 | 001     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28149 | ENTERGY MISSISSIPPI INC, BAXTER WILSON                 | 2050    | 2      | 2814900027 | 002     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 28151 | ENTERGY MISSISSIPPI INC, GERALD ANDRUS                 | 8054    | 1      | 2815100048 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |

Appendix H

264

MACTEC, Inc.



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 28163 | YAZOO CITY PUBLIC SERVICE COMMISSION        | 2067    | 3      | 2816300005 | 001     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 37017 | ELIZABETHTOWN POWER, LLC                    | 10380   | UNIT1  | 3701700043 | G-17A   | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37017 | ELIZABETHTOWN POWER, LLC                    | 10380   | UNIT2  | 3701700043 | G-17B   |            | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37019 | COGENTRIX OF NORTH CAROLINA INC - SOUTHPORT | 10378   | GEN1   | 3701900067 | G-29    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37019 | COGENTRIX OF NORTH CAROLINA INC - SOUTHPORT | 10378   | GEN2   | 3701900067 | G-30    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37021 | CAROLINA POWER & LIGHT ASHEVILLE STEAM      | 2706    | 1      | 628        | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37021 | CAROLINA POWER & LIGHT ASHEVILLE STEAM      | 2706    | 2      | 628        | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37025 | KANNAPOLIS ENERGY PARTNERS LLC              |         |        | 3702500113 | G-2     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37025 | KANNAPOLIS ENERGY PARTNERS LLC              |         |        | 3702500113 | G-3     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37035 | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 3      | 3703500073 | G-1     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37035 | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 4      | 3703500073 | G-2     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37035 | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 1      | 3703500073 | G-4     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37035 | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 2      | 3703500073 | G-5     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | SCR                      | SCR                   | SCR                      | Scrubber              |
| 37037 | PROGRESS ENERGY CAROLINAS CAPE FEAR         | 2708    | 5      | 3703700063 | G-1     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | Scrubber              |
| 37037 | PROGRESS ENERGY CAROLINAS CAPE FEAR         | 2708    | 6      | 3703700063 | G-2     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | Scrubber              |
| 37071 | DUKE ENERGY CORPORATION ALLEN STEAM         | 2718    | 1      | 3707100039 | G-14    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 37071 | DUKE ENERGY CORPORATION ALLEN STEAM         | 2718    | 2      | 3707100039 | G-15    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |

Appendix H

265

MACTEC, Inc.



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                           | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 37071 | DUKE ENERGY CORPORATION ALLEN STEAM     | 2718    | 3      | 3707100039 | G-16    | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37071 | DUKE ENERGY CORPORATION ALLEN STEAM     | 2718    | 4      | 3707100039 | G-17    | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37071 | DUKE ENERGY CORPORATION ALLEN STEAM     | 2718    | 5      | 3707100039 | G-18    | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37071 | DUKE ENERGY CORPORATION RIVERBEND STEAM | 2732    | 7      | 3707100040 | G-17    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37071 | DUKE ENERGY CORPORATION RIVERBEND STEAM | 2732    | 8      | 3707100040 | G-18    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37071 | DUKE ENERGY CORPORATION RIVERBEND STEAM | 2732    | 9      | 3707100040 | G-19    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37071 | DUKE ENERGY CORPORATION RIVERBEND STEAM | 2732    | 10     | 3707100040 | G-20    | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37083 | ROANOKE VALLEY ENERGY FACILITY          |         |        | 3708300174 | G-27    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 37083 | ROANOKE VALLEY ENERGY FACILITY          |         |        | 3708300174 | G-7     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT         | 2713    | 1      | 3712900036 | G-187   | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT         | 2713    | 2      | 3712900036 | G-188   | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT         | 2713    | 3      | 3712900036 | G-189   | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT     | 2712    | 1      | 3714500029 | G-29    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT     | 2712    | 2      | 3714500029 | G-30    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT     | 2712    | 3A     | 3714500029 | G-35A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT     | 2712    | 3B     | 3714500029 | G-35B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT     | 2712    | 4A     | 3714500029 | G-36A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                      | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 4B     | 3714500029 | G-36B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - MAYO FACILITY                               | 6250    | 1A     | 3714500045 | G-46A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - MAYO FACILITY                               | 6250    | 1B     | 3714500045 | G-46B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 1      | 3715500147 | G-24    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 2      | 3715500147 | G-25    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 3      | 3715500147 | G-26    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37155 | LUMBERTON POWER, LLC                               | 10382   | UNIT1  | 3715500166 | G-17A   | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 37155 | LUMBERTON POWER, LLC                               | 10382   | UNIT2  | 3715500166 | G-17B   |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM                   | 2723    | 3      | 3715700015 | G-21    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM                   | 2723    | 1      | 3715700015 | G-22    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM                   | 2723    | 2      | 3715700015 | G-23    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM                 | 2720    | 5      | 3715900004 | G-1     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM                 | 2720    | 6      | 3715900004 | G-2     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM                 | 2720    | 7      | 3715900004 | G-3     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM                 | 2720    | 8      | 3715900004 | G-4     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM                 | 2720    | 9      | 3715900004 | G-5     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                           | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 1      | 3716100028 | G-82    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 2      | 3716100028 | G-83    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 3      | 3716100028 | G-84    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 4      | 3716100028 | G-85    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 5      | 3716100028 | G-86    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 6      | 3716100028 | G-87    |            | No Operation             | Not in IPM            | SCR                      | Not in IPM            | No Operation             | Not in IPM            |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 7      | 3716100028 | G-88    |            | No Operation             | Not in IPM            | SCR                      | Not in IPM            | No Operation             | Not in IPM            |
| 37169 | DUKE ENERGY CORP BELEWS CREEK STEAM     | 8042    | 1      | 3716900004 | G-17    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37169 | DUKE ENERGY CORP BELEWS CREEK STEAM     | 8042    | 2      | 3716900004 | G-18    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 1      | 3719100017 | G-2     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 2      | 3719100017 | G-3     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 3      | 3719100017 | G-4     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 45003 | SCE&G:URQUHART                          | 3295    | URQ3   | 0080-0011  | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 002     |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 003     |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 004     |            | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                    | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|----------------------------------|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 45007 | DUKE ENERGY:LEE                  | 3264    | 1      | 0200-0004 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45007 | DUKE ENERGY:LEE                  | 3264    | 2      | 0200-0004 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45007 | DUKE ENERGY:LEE                  | 3264    | 3      | 0200-0004 | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 1      | 0420-0003 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 2      | 0420-0003 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 3      | 0420-0003 | 003     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 4      | 0420-0003 | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45015 | SCE&G:WILLIAMS                   | 3298    | WIL1   | 0420-0006 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 1      | 0420-0030 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 2      | 0420-0030 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 3      | 0420-0030 | 3       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 4      | 0420-0030 | 4       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN1   | 0740-0002 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN2   | 0740-0002 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN3   | 0740-0002 | 003     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 45031 | PROGRESS ENERGY ROBINSON STATION | 3251    | 1      | 0820-0002 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45043 | SANTEE COOPER WINYAH             | 6249    | 1      | 1140-0005 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                 | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|-------------------------------|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                               |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 45043 | SANTEE COOPER WINYAH          | 6249    | 2      | 1140-0005 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 45043 | SANTEE COOPER WINYAH          | 6249    | 3      | 1140-0005 | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              |
| 45043 | SANTEE COOPER WINYAH          | 6249    | 4      | 1140-0005 | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              |
| 45051 | SANTEE COOPER GRAINGER        | 3317    | 1      | 1340-0003 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45051 | SANTEE COOPER GRAINGER        | 3317    | 2      | 1340-0003 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45063 | SCE&G:MCMECKIN                | 3287    | MCM1   | 1560-0003 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45063 | SCE&G:MCMECKIN                | 3287    | MCM2   | 1560-0003 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 45075 | SCE&G:COPE                    | 7210    | COP1   | 1860-0044 | 001     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 45079 | SCE&G:WATEREE                 | 3297    | WAT1   | 1900-0013 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 45079 | SCE&G:WATEREE                 | 3297    | WAT2   | 1900-0013 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 47001 | TVA BULL RUN FOSSIL PLANT     | 3396    | 1      | 0009      | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 47073 | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 1      | 0007      | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 47073 | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 2      | 0007      | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 47073 | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 3      | 0007      | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 47073 | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 4      | 0007      | 004     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 1      | 0011      | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 2      | 0011      | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                 | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|-------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                               |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 3      | 0011    | 003     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 4      | 0011    | 004     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 5      | 0011    | 005     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 6      | 0011    | 006     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 7      | 0011    | 007     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 8      | 0011    | 008     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 9      | 0011    | 009     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 10     | 0011    | 010     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 1      | 0013    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 2      | 0013    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 3      | 0013    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 4      | 0013    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 5      | 0013    | 005     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 6      | 0013    | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 7      | 0013    | 007     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 8      | 0013    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407    | 9      | 0013    | 009     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                         | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---------------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                       |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 1      | 00528   | Boiler1 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 2      | 00528   | Boiler2 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 3      | 00528   | Boiler3 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 47161 | TVA CUMBERLAND FOSSIL PLANT           | 3399    | 1      | 0011    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 47161 | TVA CUMBERLAND FOSSIL PLANT           | 3399    | 2      | 0011    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 1      | 0025    | 001     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 2      | 0025    | 002     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 3      | 0025    | 003     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 4      | 0025    | 004     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51031 | DOMINION - ALTAVISTA POWER STATION    | 10773   | 1      | 00156   | 1       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              |
| 51031 | DOMINION - ALTAVISTA POWER STATION    | 10773   | 2      | 00156   | 2       |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 3      | 00002   | 3       | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 4      | 00002   | 4       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 5      | 00002   | 6       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 6      | 00002   | 8       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 51065 | DOMINION - BREMO POWER STATION        | 3796    | 3      | 00001   | 1       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 51065 | DOMINION - BREMO POWER STATION        | 3796    | 4      | 00001   | 2       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type     | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|---------|---------|----------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |         |         |                | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 51     | 00002   | 1       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | None                  |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 52     | 00002   | 2       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | None                  |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 6      | 00002   | 3       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 51083 | DOMINION - CLOVER POWER STATION            | 7213    | 1      | 00046   | 1       | Coal Steam     | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              |
| 51083 | DOMINION - CLOVER POWER STATION            | 7213    | 2      | 00046   | 2       | Coal Steam     | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              |
| 51099 | BIRCHWOOD POWER PARTNERS, L.P.             | 54304   | 1      | 00012   | 1       | Coal Steam     | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 51117 | Mecklenburg Cogeneration Facility          | 52007   | GEN1   | 00051   | 1       | Coal Steam     | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51117 | Mecklenburg Cogeneration Facility          | 52007   | GEN2   | 00051   | 2       | Coal Steam     | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 3      | 00002   | 3       | Coal Steam     | None                     | Combined Cycle        | None                     | Combined Cycle        | Combined Cycle           | Combined Cycle        |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 4      | 00002   | 4       | Coal Steam     | None                     | Combined Cycle        | None                     | Combined Cycle        | Combined Cycle           | Combined Cycle        |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 5      | 00002   | 5       | O/G Steam      | None                     | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 6      | 00002   |         | Combined Cycle | Combined Cycle           | Combined Cycle        | Combined Cycle           | Combined Cycle        | Combined Cycle           | Combined Cycle        |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 1      | 00003   | 1       | Coal Steam     | None                     | None                  | None                     | SCR                   | None                     | Scrubber              |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 2      | 00003   | 2       | Coal Steam     | None                     | None                  | None                     | SCR                   | None                     | Scrubber              |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 3      | 00003   | 3       | Coal Steam     | None                     | None                  | None                     | SCR                   | None                     | Scrubber              |
| 51175 | LG&E Westmoreland Southampton              | 10774   | GEN1   | 00051   | 1       | Coal Steam     | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51175 | LG&E Westmoreland Southampton              |         |        | 00051   | 2       |                | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| FIPS  | Facility Name                     | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|-----------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                   |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2018 Controls |
| 51175 | LG&E Westmoreland Southampton     |         |        | 00051   | 4       |            | None                     | None                  | None                     | None                  | None                     | None                  |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 3      | 00001   | 3       | O/G Steam  | SNCR                     | No Operation          | SNCR                     | No Operation          | None                     | No Operation          |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 2      | 00001   | 5       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 1      | 00001   | 6       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 1      | 00003   | 1       | Coal Steam | SNCR                     | Coal Early Retirement | SNCR                     | Coal Early Retirement | None                     | Coal Early Retirement |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 2      | 00003   | 2       | Coal Steam | SNCR                     | Coal Early Retirement | SNCR                     | Coal Early Retirement | None                     | Coal Early Retirement |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 3      | 00003   | 3       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 4      | 00003   | 4       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 5      | 00003   | 5       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 1      | 00026   | 1       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 2      | 00026   | 2       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 3      | 00026   | 3       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 4      | 00026   | 4       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT           | 3954    | 1      | 0003    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT           | 3954    | 2      | 0003    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT           | 3954    | 3      | 0003    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 54023 | NORTH BRANCH POWER STATION        | 7537    | 1A     | 0014    | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                            | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 54023 | NORTH BRANCH POWER STATION               | 7537    | 1B     | 0014      | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54033 | MONONGAHELA POWER CO HARRISON            | 3944    | 1      | 0015      | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54033 | MONONGAHELA POWER CO HARRISON            | 3944    | 2      | 0015      | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54033 | MONONGAHELA POWER CO HARRISON            | 3944    | 3      | 0015      | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54039 | APPALACHIAN POWER KANAWHA RIVER PLANT    | 3936    | 1      | 0006      | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54039 | APPALACHIAN POWER KANAWHA RIVER PLANT    | 3936    | 2      | 0006      | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54049 | MONONGAHELA POWER CO. RIVESVILLE POWER   | 3945    | 7      | 0009      | 001     | Coal Steam | None                     | Coal Early Retirement | None                     | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54049 | MONONGAHELA POWER CO. RIVESVILLE POWER   | 3945    | 8      | 0009      | 002     | Coal Steam | None                     | Coal Early Retirement | None                     | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54049 | AMERICAN BITUMINOUS POWER GRANT TOWN PLT | 10151   |        | 0026      | 001     |            | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54049 | GRANT TOWN POWER PLANT                   | 10151   | GEN1   | ORIS10151 | GEN1    | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54051 | OHIO POWER MITCHELL PLANT                | 3948    | 1      | 0005      | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54051 | OHIO POWER MITCHELL PLANT                | 3948    | 2      | 0005      | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 1      | 0006      | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 2      | 0006      | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 3      | 0006      | 003     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 11     | 0001      | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 21     | 0001      | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |

Appendix H



## APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT     | 3938    | 31     | 0001      |         | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT     | 3938    | 41     | 0001      |         | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT     | 3938    | 51     | 0001      |         | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54053 | APPALACHIAN POWER MOUNTAINEER PLANT          | 6264    | 1      | 0009      |         | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54061 | MONONGAHELA POWER CO. FORT MARTIN POWER      | 3943    | 1      | 0001      |         | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | Scrubber              |
| 54061 | MONONGAHELA POWER CO. FORT MARTIN POWER      | 3943    | 2      | 0001      |         | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | Scrubber              |
| 54061 | MORGANTOWN ENERGY ASSOCIATES                 |         |        | 0027      | 043     |            | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54061 | MORGANTOWN ENERGY FACILITY                   | 10743   | GEN1   | ORIS10743 | GEN1    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54073 | MONONGAHELA POWER CO. WILLOW ISLAND          | 3946    | 1      | 0004      | 001     | Coal Steam | None                     | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54073 | MONONGAHELA POWER CO. WILLOW ISLAND          | 3946    | 2      | 0004      | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 54073 | MONONGAHELA POWER CO PLEASANTS POWER STATION | 6004    | 1      | 0005      | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54073 | MONONGAHELA POWER CO PLEASANTS POWER STATION | 6004    | 2      | 0005      | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber Upgrade      | Scrubber                 | Scrubber              |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 1      | 0001      | 001     | Coal Steam | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 2      | 0001      | 002     | Coal Steam | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 3      | 0001      | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54079 | APPALACHIAN POWER JOHN E AMOS PLANT          | 3935    | 1      | 0006      | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54079 | APPALACHIAN POWER JOHN E AMOS PLANT          | 3935    | 2      | 0006      | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |

Appendix H



**APPENDIX H: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE BASE G/G2 INVENTORY**

| <b>FIPS</b> | <b>Facility Name</b>                | <b>ORIS ID</b> | <b>BLR ID</b> | <b>SITE ID</b> | <b>UNIT ID</b> | <b>Plant Type</b> | <b>Post-Combustion Controls</b> |                              |                                 |                              |                                 |                              |
|-------------|-------------------------------------|----------------|---------------|----------------|----------------|-------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|
|             |                                     |                |               |                |                |                   | <b>VISTAS NOx 2009 Controls</b> | <b>IPM NOx 2009 Controls</b> | <b>VISTAS NOx 2018 Controls</b> | <b>IPM NOx 2018 Controls</b> | <b>VISTAS SO2 2009 Controls</b> | <b>IPM SO2 2009 Controls</b> |
| 54079       | APPALACHIAN POWER JOHN E AMOS PLANT | 3935           | 3             | 0006           | 003            | Coal Steam        | SCR                             | SCR                          | SCR                             | SCR                          | Scrubber                        | Scrubber                     |
|             |                                     |                |               |                |                |                   |                                 |                              |                                 |                              | Scrubber                        | Scrubber                     |
|             |                                     |                |               |                |                |                   |                                 |                              |                                 |                              |                                 | IPM SO2 2018 Controls        |



**APPENDIX I:**

**COMPARISON OF EGU CONTROLS FOR COAL AND OIL/GAS UNITS  
BASED ON IPM MODELING AND STATE-PROVIDED INFORMATION  
FOR THE B&F INVENTORY**



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                       | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|-------------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                     |         |        |         |         |            | VISTAS NOx Controls      | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 01033 | TVA COLBERT                         | 47      | 1      | 0010    | 010     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 2      | 0010    | 011     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 3      | 0010    | 012     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 4      | 0010    | 013     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01033 | TVA COLBERT                         | 47      | 5      | 0010    | 014     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 01055 | ALABAMA POWER COMPANY GADSDEN       | 7       | 1      | 0002    | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 01055 | ALABAMA POWER COMPANY GADSDEN       | 7       | 2      | 0002    | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 01063 | ALABAMA POWER COMPANY GREENE COUNTY | 10      | 1      | 0001    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01063 | ALABAMA POWER COMPANY GREENE COUNTY | 10      | 2      | 0001    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 1      | 0008    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 2      | 0008    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 3      | 0008    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 4      | 0008    | 005     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 5      | 0008    | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 6      | 0008    | 007     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 01071 | TVA - WIDOWS CREEK                  | 50      | 7      | 0008    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 01071 | TVA - WIDOWS CREEK                         | 50      | 8      | 0008      | 009     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 4      | 010730011 | 001     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  | Scrubber                 | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 3      | 010730011 | 002     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  | Scrubber                 | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 2      | 010730011 | 004     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  | Scrubber                 | None                  |
| 01073 | ALABAMA POWER COMPANY (MILLER POWER PLANT) | 6002    | 1      | 010730011 | 005     | Coal Steam | SCR All Year             | SCR Summer            | SCR All Year             | SCR Summer            | None                     | None                  | Scrubber                 | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 1      | 1001      | 002     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 2      | 1001      | 003     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 3      | 1001      | 004     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  | None                     | None                  |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 4      | 1001      | 005     | Coal Steam | SNCR                     | None                  | SNCR                     | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01097 | ALABAMA POWER COMPANY BARRY                | 3       | 5      | 1001      | 006     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 1      | 0005      | 002     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 2      | 0005      | 003     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 3      | 0005      | 004     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 4      | 0005      | 005     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 01117 | ALABAMA POWER COMPANY E C GASTON           | 26      | 5      | 0005      | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 6      | 0001    | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 7      | 0001    | 005     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 8      | 0001    | 006     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  | Scrubber                 | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 9      | 0001    | 007     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  | Scrubber                 | None                  |
| 01127 | ALABAMA POWER COMPANY GORGAS                | 8       | 10     | 0001    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 1      | 0001    | 002     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  | Scrubber                 | None                  |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 2      | 0001    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 01129 | ALABAMA ELECTRIC COOP CHARLES R LOWMAN      | 56      | 3      | 0001    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK6   |         |         | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK7   |         |         | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | GAINESVILLE REGIONAL UTILITIES JOHN R KELLY | 664     | JRK8   | 0010005 | 7       |            | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12001 | CITY OF GAINESVILLE, GRU DEERHAVEN          | 663     | B1     | 0010006 | 3       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12001 | CITY OF GAINESVILLE, GRU DEERHAVEN          | 663     | B2     | 0010006 | 5       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 12005 | GULF POWER COMPANY LANSING SMITH PLANT      | 643     | 1      | 0050014 | 1       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 12005 | GULF POWER COMPANY LANSING SMITH PLANT      | 643     | 2      | 0050014 | 2       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 12009 | FLORIDA POWER & LIGHT (PCC) CAPE CANAVERAL  | 609     | PCC1   | 0090006 | 1       | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |

Appendix I

281

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls |
| 12009 | FLORIDA POWER & LIGHT (PCC) CAPE CANAVERAL  | 609     | PCC2   | 0090006   | 2       | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE1   | 0110036   | 1       | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE2   | 0110036   | 2       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE3   | 0110036   | 3       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12011 | FLORIDA POWER & LIGHT (PPE) PORT EVERGLADES | 617     | PPE4   | 0110036   | 4       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER       | 628     | 1      | 0170004   | 1       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER       | 628     | 2      | 0170004   | 2       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER       | 628     | 5      | 0170004   | 3       | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 12017 | PROGRESS ENERGY FLORIDA CRYSTAL RIVER       | 628     | 4      | 0170004   | 4       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | SAINT JOHNS RIVER                           | 207     | 1      | 0310045-A | 16      |            | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | SAINT JOHNS RIVER                           | 207     | 2      | 0310045-A | 17      |            | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 12031 | NORTHSIDE                                   | 667     | 2A     | 0310045-B | 26      | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12031 | NORTHSIDE                                   | 667     | 1A     | 0310045-B | 27      | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12031 | NORTHSIDE                                   | 667     | 3      | 0310045-B | 3       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  |
| 12031 | CEDAR BAY COGENERATION INC.                 | 10672   | GEN1   | 0310337   | 1       | Coal Steam | None                     | SNCR                  | None                     | SNCR                  | Scrubber                 | Scrubber              |
| 12031 | CEDAR BAY COGENERATION INC.                 |         |        | 0310337   | 2       |            | None                     |                       | None                     |                       |                          |                       |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls             |                                   |                                      |                                   |                                      |                                   | VISTAS SO <sub>2</sub> 2009 Controls | IPM NO <sub>x</sub> 2009 Controls | VISTAS NO <sub>x</sub> 2018 Controls | IPM NO <sub>x</sub> 2018 Controls | VISTAS SO <sub>2</sub> 2009 Controls | IPM SO <sub>2</sub> 2009 Controls | VISTAS SO <sub>2</sub> 2018 Controls | IPM SO <sub>2</sub> 2018 Controls |
|-------|--|---------|--------|---------|---------|------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
|       |  |         |        |         |         |            | VISTAS NO <sub>x</sub> 2009 Controls | IPM NO <sub>x</sub> 2009 Controls | VISTAS NO <sub>x</sub> 2018 Controls | IPM NO <sub>x</sub> 2018 Controls | VISTAS SO <sub>2</sub> 2009 Controls | IPM SO <sub>2</sub> 2009 Controls |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |
| 12031 | CEDAR BAY COGENERATION INC.                  |         |        | 0310337 | 3       |            | None                                 |                                   | None                                 |                                   |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 1      | 0330045 | 1       |            |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |                                      |                                   |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 2      | 0330045 | 2       | O/G Steam  | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 3      | 0330045 | 3       | O/G Steam  | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             | O/G Early Retireme nt                | O/G Early Retireme nt             |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 4      | 0330045 | 4       | Coal Steam | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 5      | 0330045 | 5       | Coal Steam | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 6      | 0330045 | 6       | Coal Steam | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              | SNCR                                 | SNCR                              |
| 12033 | GULF POWER COMPANY CRIST ELECTRIC GENERATION | 641     | 7      | 0330045 | 7       | Coal Steam | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               |
| 12053 | Central Power and Lime Incorporated          | 10333   | GEN1   | 0530021 | 18      | Coal Steam | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              | None                                 | None                              |
| 12057 | TAMPA ELECTRIC COMPANY BIG BEND STATION      | 645     | BB01   | 0570039 | 1       | Coal Steam | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               |
| 12057 | TAMPA ELECTRIC COMPANY BIG BEND STATION      | 645     | BB02   | 0570039 | 2       | Coal Steam | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               |
| 12057 | TAMPA ELECTRIC COMPANY BIG BEND STATION      | 645     | BB03   | 0570039 | 3       | Coal Steam | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               |
| 12057 | TAMPA ELECTRIC COMPANY BIG BEND STATION      | 645     | BB04   | 0570039 | 4       | Coal Steam | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               | SCR                                  | SCR                               |
| 12057 | TAMPA ELECTRIC COMPANY F.J. GANNON STATION   | 646     | GB01   | 0570040 | 1       |            | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      |
| 12057 | TAMPA ELECTRIC COMPANY F.J. GANNON STATION   | 646     | GB02   | 0570040 | 2       |            | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      |
| 12057 | TAMPA ELECTRIC COMPANY F.J. GANNON STATION   | 646     | GB03   | 0570040 | 3       |            | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      | No Operation                         | No Operation                      |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                 | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type    | Post-Combustion Controls |                         |                          |                         |                          |                         |                          |                         |
|-------|---|---------|--------|---------|---------|---------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
|       |   |         |        |         |         |               | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls   | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls   | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls   | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls   |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION | 646     | GB04   | 0570040 | 4       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION | 646     | GB05   | 0570040 | 5       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12057 | TAMPA ELECTRIC COMPANY<br>F.J. GANNON STATION | 646     | GB06   | 0570040 | 6       |               | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12061 | CITY OF VERO BEACH                            | 693     |        | 0610029 | 1       | O/G Steam     | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement | O/G Early<br>Retirement  | O/G Early<br>Retirement |
| 12061 | CITY OF VERO BEACH                            | 693     | 3      | 0610029 | 3       | O/G Steam     | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12061 | CITY OF VERO BEACH                            | 693     | 4      | 0610029 | 4       | O/G Steam     | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12063 | GULF POWER COMPANY<br>SCHOLZ                  | 642     | 1      | 0630014 | 1       | Coal<br>Steam | None                     | None                    | Shut<br>Down             | None                    | None                     | Shut<br>Down            | None                     | None                    |
| 12063 | GULF POWER COMPANY<br>SCHOLZ                  | 642     | 2      | 0630014 | 2       | Coal<br>Steam | None                     | None                    | Shut<br>Down             | None                    | None                     | Shut<br>Down            | None                     | None                    |
| 12073 | CITY OF TALLAHASSEE<br>ARVAH B.HOPKINS        | 688     | 1      | 0730003 | 1       | O/G Steam     | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12073 | CITY OF TALLAHASSEE<br>ARVAH B.HOPKINS        | 688     | 2      | 0730003 | 4       | O/G Steam     | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |
| 12081 | FLORIDA POWER & LIGHT<br>(PMT) MANATEE POWER  | 6042    | PMT1   | 0810010 | 1       | O/G Steam     | None                     | No<br>Operation         | None                     | No<br>Operation         | None                     | None                    | No<br>Operation          | No<br>Operation         |
| 12081 | FLORIDA POWER & LIGHT<br>(PMT) MANATEE POWER  | 6042    | PMT2   | 0810010 | 2       | O/G Steam     | None                     | No<br>Operation         | None                     | No<br>Operation         | None                     | None                    | No<br>Operation          | No<br>Operation         |
| 12085 | FLORIDA POWER & LIGHT<br>(PMR) FPL / MARTIN   | 6043    | PMR1   | 0850001 | 1       | O/G Steam     | None                     | None                    | None                     | No<br>Operation         | None                     | None                    | No<br>Operation          | No<br>Operation         |
| 12085 | FLORIDA POWER & LIGHT<br>(PMR) FPL / MARTIN   | 6043    | PMR2   | 0850001 | 2       | O/G Steam     | None                     | None                    | None                     | No<br>Operation         | None                     | None                    | No<br>Operation          | No<br>Operation         |
| 12085 | INDIANTOWN<br>COGENERATION, L.P.              | 50976   | GEN1   | 0850102 | 1       | Coal<br>Steam | SCR                      | SCR                     | SCR                      | SCR                     | SCR                      | Scrubber                | Scrubber                 | Scrubber                |
| 12086 | FLORIDA POWER & LIGHT<br>(PCU) CUTLER POWER   | 610     | PCU5   | 0250001 | 3       | O/G Steam     | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         | No<br>Operation          | No<br>Operation         |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| Post-Combustion Controls |   |         |        |         |         |            |                          |                       |                          |                       |                          |                       |                          |                       |
|--------------------------|---|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| FIPS                     | Facility Name                               | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 12086                    | FLORIDA POWER & LIGHT (PCU) CUTLER POWER    | 610     | PCU6   | 0250001 | 4       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12086                    | FLORIDA POWER & LIGHT (PTF) TURKEY POINT    | 621     | PTP1   | 0250003 | 1       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  | None                     | No Operation          |
| 12086                    | FLORIDA POWER & LIGHT (PTF) TURKEY POINT    | 621     | PTP2   | 0250003 | 2       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  | None                     | No Operation          |
| 12095                    | ORLANDO UTILITIES COMMISSION STANTON ENERGY | 564     | 1      | 0950137 | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12095                    | ORLANDO UTILITIES COMMISSION STANTON ENERGY | 564     | 2      | 0950137 | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12099                    | FLORIDA POWER & LIGHT (PRV) RIVIERA POWE    | 619     | PRV3   | 0990042 | 3       | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12099                    | FLORIDA POWER & LIGHT (PRV) RIVIERA POWE    | 619     | PRV4   | 0990042 | 4       | O/G Steam  | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          |
| 12099                    | CITY OF LAKE WORTH UTILITIES TOM G. SMITH   | 673     | S-1    | 0990045 | 7       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12099                    | CITY OF LAKE WORTH UTILITIES TOM G. SMITH   | 673     | S-3    | 0990045 | 9       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12101                    | PROGRESS ENERGY FLORIDA ANCLOTE             | 8048    | 1      | 1010017 | 1       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  | None                     | No Operation          |
| 12101                    | PROGRESS ENERGY FLORIDA ANCLOTE             | 8048    | 2      | 1010017 | 2       | O/G Steam  | None                     | None                  | None                     | No Operation          | None                     | None                  | None                     | No Operation          |
| 12103                    | PROGRESS ENERGY FLORIDA BARTOW              | 634     | 1      | 1030011 | 1       | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12103                    | PROGRESS ENERGY FLORIDA BARTOW              | 634     | 2      | 1030011 | 2       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12103                    | PROGRESS ENERGY FLORIDA BARTOW              | 634     | 3      | 1030011 | 3       | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 12105                    | LAKELAND ELECTRIC CHARLES LARSEN            | 675     | 7      | 1050003 | 4       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12105                    | LAKELAND ELECTRIC C.D. MCINTOSH, JR.        | 676     | 3      | 1050004 | 1       | Coal Steam | None                     | Combine d Cycle       | None                     | Combine d Cycle       | None                     | Combine d Cycle       | None                     | Combine d Cycle       |

Appendix I

MACTEC, Inc.

Appendix I

285

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID  | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                      |                          |                       |                          |                       |
|-------|--|---------|--------|----------|---------|------------|--------------------------|-----------------------|--------------------------|----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |          |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx Controls     | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 12105 | LAKELAND ELECTRIC C.D. MCINTOSH, JR.       | 676     | 3      | 1050004  | 5       | Coal Steam | None                     | Combined Cycle        | None                     | Combined Cycle       | None                     | Combined Cycle        | None                     | Combined Cycle        |
| 12105 | LAKELAND ELECTRIC C.D. MCINTOSH, JR.       | 676     | 3      | 1050004  | 6       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12107 | SEMINOLE ELECTRIC COOPERATIVE, INC.        | 136     | 1      | 1070025  | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12107 | SEMINOLE ELECTRIC COOPERATIVE, INC.        | 136     | 2      | 1070025  | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 12111 | FT PIERCE UTILITIES AUTHORITY FT PIERCE    | 658     | 7      | 1110003  | 7       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation         | No Operation             | No Operation          | No Operation             | No Operation          |
| 12111 | FT PIERCE UTILITIES AUTHORITY FT PIERCE    | 658     | 8      | 1110003  | 8       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation         | No Operation             | No Operation          | No Operation             | No Operation          |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER     | 638     | 1      | 1210003  | 1       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement | O/G Early Retirement     | None                  | O/G Early Retirement     | O/G Early Retirement  |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER     | 638     | 2      | 1210003  | 2       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | None                     | O/G Early Retirement | O/G Early Retirement     | None                  | O/G Early Retirement     | O/G Early Retirement  |
| 12121 | PROGRESS ENERGY FLORIDA SUWANNEE RIVER     | 638     | 3      | 1210003  | 3       | O/G Steam  | None                     | No Operation          | None                     | No Operation         | None                     | None                  | No Operation             | No Operation          |
| 12127 | FLORIDA POWER & LIGHT (PSN) SANFORD POWER  | 620     | PSN3   | 1270009  | 1       | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement  |
| 12127 | FLORIDA POWER & LIGHT (PSN) SANFORD POWER  | 620     | PSN4   | 1270009  | 2       |            | No Operation             | No Operation          | No Operation             | No Operation         | No Operation             | No Operation          | No Operation             | No Operation          |
| 12129 | TALLAHASSEE CITY PURDOM GENERATING STATION | 689     | 7      | 1290001  | 7       | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation         | No Operation             | No Operation          | No Operation             | No Operation          |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 1BLR   | 01500011 | SG01    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 2BLR   | 01500011 | SG02    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 3BLR   | 01500011 | SG03    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 13015 | GEORGIA POWER COMPANY, BOWEN STEAM-ELECT   | 703     | 4BLR   | 01500011 | SG04    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                               | ORIS ID | BLR ID | SITE ID  | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |          |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 13021 | ARKWRIGHT                                   | 699     | 1      | 0002     | 1       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                   | 699     | 2      | 0002     | 2       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                   | 699     | 3      | 0002     | 3       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13021 | ARKWRIGHT                                   | 699     | 4      | 0002     | 4       |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM              | 733     | 1      | 05100006 | SG01    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM              | 733     | 2      | 05100006 | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM              | 733     | 3      | 05100006 | SG03    | Coal Steam | None                     | None                  | None                     | SCR                   | None                     | None                  | None                     | None                  |
| 13051 | SAVANNAH ELECTRIC: KRAFT STEAM              | 733     | 4      | 05100006 | SG04    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                   | 734     | 11     | 05100018 | 11      | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                   | 734     | 12     | 05100018 | 12      | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                   | 734     | 4      | 05100018 | 4       | O/G Steam  | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13051 | RIVERSIDE                                   | 734     | 5      | 05100018 | 5       | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13051 | RIVERSIDE                                   | 734     | 6      | 05100018 | 6       | O/G Steam  | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 13067 | GEORGIA POWER COMPANY, MCDONOUGH STEAM      | 710     | MB1    | 06700003 | SGM1    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13067 | GEORGIA POWER COMPANY, MCDONOUGH STEAM      | 710     | MB2    | 06700003 | SGM2    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC | 728     | Y1BR   | 07700001 | SG01    | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC | 728     | Y2BR   | 07700001 | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix I

287

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                  | ORIS ID | BLR ID | SITE ID  | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |          |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y3BR   | 07700001 | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y4BR   | 07700001 | SG04    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y5BR   | 07700001 | SG05    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | None                     | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y6BR   | 07700001 | SG06    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13077 | GEORGIA POWER COMPANY, YATES STEAM-ELECTRIC    | 728     | Y7BR   | 07700001 | SG07    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     |        | 09500002 | SG01    |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     |        | 09500002 | SG02    |            | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13095 | GEORGIA POWER COMPANY, MITCHELL STEAM-ELECTRIC | 727     | 3      | 09500002 | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 13103 | SAVANNAH ELECTRIC: MCINTOSH STEAM - ELECTRIC   | 6124    | 1      | 10300003 | SG01    | Coal Steam | None                     | None                  | None                     | SCR                   | None                     | None                  | None                     | None                  |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 1      | 11500003 | SG01    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 2      | 11500003 | SG02    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 3      | 11500003 | SG03    | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 13115 | GEORGIA POWER COMPANY, HAMMOND STEAM-ELECTRIC  | 708     | 4      | 11500003 | SG04    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 13127 | GEORGIA POWER COMPANY, MCMANUS STEAM-ELECTRIC  | 715     | 1      | 12700004 | SG01    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13127 | GEORGIA POWER COMPANY, MCMANUS STEAM-ELECTRIC  | 715     | 2      | 12700004 | SG02    | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 13149 | GEORGIA POWER COMPANY, WANSLEY STEAM-ELECTRIC  | 6052    | 1      | 14900001 | SG01    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                  | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls |
| 13149 | GEORGIA POWER COMPANY, WANSLEY STEAM-ELECTRIC  | 6052    | 2      | 14900001   | SG02    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 1      | 20700008   | SG01    | Coal Steam | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 2      | 20700008   | SG02    | Coal Steam | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 3      | 20700008   | SG03    | Coal Steam | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 13207 | GEORGIA POWER COMPANY, SCHERER STEAM-ELECTRIC  | 6257    | 4      | 20700008   | SG04    | Coal Steam | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLEE BRANCH           | 709     | 1      | 23700008   | SG01    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLEE BRANCH           | 709     | 2      | 23700008   | SG02    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLEE BRANCH           | 709     | 3      | 23700008   | SG03    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 13237 | GEORGIA POWER COMPANY, HARLEE BRANCH           | 709     | 4      | 23700008   | SG04    | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 13297 | GENERIC UNIT                                   | 900113  | GSC13  | ORIS900113 | GSC13   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | Scrubber              |
| 21015 | CINCINNATI GAS & ELECTRIC EAST BEND STAT       | 6018    | 2      | 2101500029 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 1      | 2104100010 | 001     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 2      | 2104100010 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 3      | 2104100010 | 003     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 21041 | KENTUCKY UTILITIES CO GHENT GENERATING STATION | 1356    | 4      | 2104100010 | 004     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | Scrubber              |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT        | 1385    | 1      | 2104900003 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID     | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |             |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT      | 1385    | 2      | 2104900003  | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT      | 1385    | 3      | 2104900003  | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21049 | EAST KY POWER COOP WILLIAM C DALE PLANT      | 1385    | 4      | 2104900003  | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21059 | OWENSBORO MUNICIPAL UTIL ELMER SMITH STATION | 1374    | 1      | 2105900027  | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21059 | OWENSBORO MUNICIPAL UTIL ELMER SMITH STATION | 1374    | 2      | 2105900027  | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION       | 1381    | C1     | 2109100003  | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION       | 1381    | C2     | 2109100003  | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | WESTERN KY ENERGY CORP COLEMAN STATION       | 1381    | C3     | 2109100003  | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21091 | GENERIC UNIT                                 | 9001 21 | GSC2 1 | ORIS900 121 | GSC21   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21101 | HENDERSON MUN POW & LIGHT                    | 1372    | 6      | 2110100012  | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21101 | HENDERSON MUN POW & LIGHT                    | 1372    | 5      | 2110100012  | 5       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21111 | LOU GAS & ELEC, CANE RUN                     | 1363    | 4      | 0126        | 04      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, CANE RUN                     | 1363    | 5      | 0126        | 05      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, CANE RUN                     | 1363    | 6      | 0126        | 06      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                   | 1364    | 1      | 0127        | 01      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                   | 1364    | 2      | 0127        | 02      | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                             | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 21111 | LOU GAS & ELEC, MILL CREEK                | 1364    | 3      | 0127       | 03      | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 21111 | LOU GAS & ELEC, MILL CREEK                | 1364    | 4      | 0127       | 04      | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 21127 | KENTUCKY POWER CO BIG SANDY PLANT         | 1353    | BSU1   | 2112700003 | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 21127 | KENTUCKY POWER CO BIG SANDY PLANT         | 1353    | BSU2   | 2112700003 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 1      | 2114500006 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 2      | 2114500006 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 3      | 2114500006 | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 4      | 2114500006 | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 5      | 2114500006 | 005     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 6      | 2114500006 | 006     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 7      | 2114500006 | 007     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 8      | 2114500006 | 008     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 9      | 2114500006 | 009     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21145 | TVA-ENVIRONMENTAL AFFAIRS SHAWNEE PLANT   | 1379    | 10     | 2114500006 | 016     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 21161 | EAST KY POWER COOP SPURLOCK ST. MAYSVILLE | 6041    | 1      | 2116100009 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 21161 | EAST KY POWER COOP SPURLOCK ST. MAYSVILLE | 6041    | 2      | 2116100009 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |

Appendix I

291

MACTEC, Inc.



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| FIPS  | Facility Name                             | ORIS ID | BLR ID | SITE ID       | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|---|---------|--------|---------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |               |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 1      | 2116700001    | 001     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 2      | 2116700001    | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21167 | KENTUCKY UTILITIES CO BROWN FACILITY      | 1355    | 3      | 2116700001    | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | KENTUCKY UTILITIES CO GREEN RIVER STATION | 1357    | 4      | 2117700001    | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21177 | KENTUCKY UTILITIES CO GREEN RIVER STATION | 1357    | 5      | 2117700001    | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 1      | 2117700006    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 2      | 2117700006    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21177 | TVA PARADISE STEAM PLANT                  | 1378    | 3      | 2117700006    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21183 | WESTERN KY ENERGY CORP WILSON STATION     | 6823    | W1     | 2118300069    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21199 | EAST KY POWER COOP JOHN SHERMAN COOPER    | 1384    | 1      | 2119900005    | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21199 | EAST KY POWER COOP JOHN SHERMAN COOPER    | 1384    | 2      | 2119900005    | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 21223 | LOUISVILLE GAS & ELECTRIC TRIMBLE CO GEN  | 6071    | 1      | 2122300002    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | HENDERSON STATION 2                       | 1382    | H1     | 2123300001 -A | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | HENDERSON STATION 2                       | 1382    | H2     | 2123300001 -A | 003     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 21233 | WESTERN KY ENERGY CORP REID               | 1383    | R1     | 2123300001 -B | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 21233 | WESTERN KY ENERGY CORP GREEN STATION      | 6639    | G1     | 2123300052    | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              |



## Appendix I



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name  | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 28047 | MISSISSIPPI POWER COMPANY, PLANT JACK WATSON           | 2049    | 5      | 2804700055 | 005     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 28049 | ENTERGY MISSISSIPPI INC., REX BROWN PLANT              | 2053    | 4      | 2804900112 | 001     | O/G Steam  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  |
| 28049 | ENTERGY MISSISSIPPI INC., REX BROWN PLANT              | 2053    | 3      | 2804900112 | 002     | O/G Steam  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  |
| 28059 | MISSISSIPPI POWER COMPANY, PLANT DANIEL                | 6073    | 1      | 2805900090 | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 28059 | MISSISSIPPI POWER COMPANY, PLANT DANIEL                | 6073    | 2      | 2805900090 | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 1      | 2806700035 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 2      | 2806700035 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28067 | MOSELLE SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION   | 2070    | 3      | 2806700035 | 003     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28073 | RD MORROW SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION | 6061    | 1      | 2807300021 | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 28073 | RD MORROW SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION | 6061    | 2      | 2807300021 | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 28075 | MISSISSIPPI POWER COMPANY, PLANT SWEATT                | 2048    | 1      | 2807500032 | 001     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28075 | MISSISSIPPI POWER COMPANY, PLANT SWEATT                | 2048    | 2      | 2807500032 | 002     | O/G Steam  | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          |
| 28083 | GREENWOOD UTILITIES, HENDERSON STATION                 | 2062    | H1     | 2808300048 | 001     | O/G Steam  | None                     | None                  | None                     | None                  | No Operation             | No Operation          | No Operation             | No Operation          |
| 28083 | GREENWOOD UTILITIES, HENDERSON STATION                 | 2062    | H3     | 2808300048 | 003     | O/G Steam  | None                     | None                  | None                     | None                  | No Operation             | No Operation          | No Operation             | No Operation          |
| 28149 | ENTERGY MISSISSIPPI INC., BAXTER WILSON                | 2050    | 1      | 2814900027 | 001     | O/G Steam  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement  |



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| Post-Combustion Controls |   |         |        |            |         |            |                          |                       |                          |                      |                          |                       |                           |                       |
|--------------------------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|----------------------|--------------------------|-----------------------|---------------------------|-----------------------|
| FIPS                     | Facility Name                               | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx Retireme nt  | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls  | IPM SO2 2018 Controls |
| 28149                    | ENTERGY MISSISSIPPI INC., BAXTER WILSON     | 2050    | 2      | 2814900027 | 002     | O/G Steam  | None                     | O/G Early Retirement  | None                     | O/G Early Retirement | None                     | O/G Early Retirement  | None                      | O/G Early Retirement  |
| 28151                    | ENTERGY MISSISSIPPI INC., GERALD ANDRUS     | 8054    | 1      | 2815100048 | 001     | O/G Steam  | None                     | No Operation          | None                     | No Operation         | None                     | No Operation          | None                      | No Operation          |
| 28163                    | YAZOO CITY PUBLIC SERVICE COMMISSION        | 2067    | 3      | 2816300005 | 001     | O/G Steam  | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement     | O/G Early Retirement | O/G Early Retirement     | O/G Early Retirement  | O/G Early Retirement      | O/G Early Retirement  |
| 37017                    | ELIZABETHTOWN POWER, LLC                    | 10380   | UNIT1  | 3701700043 | G-17A   | Coal Steam | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37017                    | ELIZABETHTOWN POWER, LLC                    | 10380   | UNIT2  | 3701700043 | G-17B   |            | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37019                    | COGENTRIX OF NORTH CAROLINA INC - SOUTHPORT | 10378   | GEN1   | 3701900067 | G-29    | Coal Steam | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37019                    | COGENTRIX OF NORTH CAROLINA INC - SOUTHPORT | 10378   | GEN2   | 3701900067 | G-30    | Coal Steam | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37021                    | CAROLINA POWER & LIGHT ASHEVILLE STEAM      | 2706    | 1      | 628        | 1       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37021                    | CAROLINA POWER & LIGHT ASHEVILLE STEAM      | 2706    | 2      | 628        | 2       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37025                    | KANNAPOLIS ENERGY PARTNERS LLC              |         |        | 3702500113 | G-2     | Coal Steam | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37025                    | KANNAPOLIS ENERGY PARTNERS LLC              |         |        | 3702500113 | G-3     | Coal Steam | None                     | None                  | None                     | None                 | None                     | None                  | None                      | None                  |
| 37035                    | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 3      | 3703500073 | G-1     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37035                    | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 4      | 3703500073 | G-2     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37035                    | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 1      | 3703500073 | G-4     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37035                    | DUKE ENERGY CORPORATION MARSHALL STEAM      | 2727    | 2      | 3703500073 | G-5     | Coal Steam | SNCR                     | SCR                   | SCR                      | SCR                  | Scrubber                 | Scrubber              | Scrubber                  | Scrubber              |
| 37037                    | PROGRESS ENERGY CAROLINAS CAPE FEAR         | 2708    | 5      | 3703700063 | G-1     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                 | None                     | None                  | Furnace Sorbent Injection | Scrubber              |

Appendix I



## Appendix I



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| FIPS  | Facility Name                                      | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls |
| 37083 | ROANOKE VALLEY ENERGY FACILITY                     |         |        | 3708300174 | G-27    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 37083 | ROANOKE VALLEY ENERGY FACILITY                     |         |        | 3708300174 | G-7     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT                    | 2713    | 1      | 3712900036 | G-187   | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT                    | 2713    | 2      | 3712900036 | G-188   | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  |
| 37129 | L V SUTTON STEAM ELECTRIC PLANT                    | 2713    | 3      | 3712900036 | G-189   | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 1      | 3714500029 | G-29    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 2      | 3714500029 | G-30    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 3A     | 3714500029 | G-35A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 3B     | 3714500029 | G-35B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 4A     | 3714500029 | G-36A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - ROXBORO STEAM ELECTRIC PLANT                | 2712    | 4B     | 3714500029 | G-36B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - MAYO FACILITY                               | 6250    | 1A     | 3714500045 | G-46A   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37145 | CP&L - MAYO FACILITY                               | 6250    | 1B     | 3714500045 | G-46B   | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 1      | 3715500147 | G-24    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 2      | 3715500147 | G-25    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |
| 37155 | PROGRESS ENERGY CAROLINAS, INC., W.H. WEATHERSPOON | 2716    | 3      | 3715500147 | G-26    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                           | ORIS ID | BLR ID | SITE ID     | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|-------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |             |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 37155 | LUMBERTON POWER, LLC                    | 10382   | UNIT1  | 37155000166 | G-17A   | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37155 | LUMBERTON POWER, LLC                    | 10382   | UNIT2  | 37155000166 | G-17B   |            | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM        | 2723    | 3      | 37157000015 | G-21    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM        | 2723    | 1      | 37157000015 | G-22    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37157 | DUKE ENERGY CORP DAN RIVER STEAM        | 2723    | 2      | 37157000015 | G-23    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM      | 2720    | 5      | 37159000004 | G-1     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM      | 2720    | 6      | 37159000004 | G-2     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM      | 2720    | 7      | 37159000004 | G-3     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM      | 2720    | 8      | 37159000004 | G-4     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37159 | DUKE ENERGY CORPORATION BUCK STEAM      | 2720    | 9      | 37159000004 | G-5     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 1      | 37161000028 | G-82    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 2      | 37161000028 | G-83    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 3      | 37161000028 | G-84    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 4      | 37161000028 | G-85    | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 5      | 37161000028 | G-86    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 37161 | DUKE ENERGY CORPORATION                 | 2721    | 6      | 37161000028 | G-87    | Coal Steam | No Operation             | Not in IPM            | SCR                      | Not in IPM            | No Operation             | Not in IPM            | Scrubber                 | Not in IPM            |

Appendix I

298

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                           | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |   |         |        |            |         |            | VISTAS NOx Controls      | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
|       | CLIFFSIDE STEAM                         |         |        |            |         |            |                          |                       |                          |                       |                          |                       |                          |                       |
| 37161 | DUKE ENERGY CORPORATION CLIFFSIDE STEAM | 2721    | 7      | 3716100028 | G-88    |            | No Operation             | Not in IPM            | No Operation             | Not in IPM            | No Operation             | Not in IPM            | No Operation             | Not in IPM            |
| 37169 | DUKE ENERGY CORP BELEWS CREEK STEAM     | 8042    | 1      | 3716900004 | G-17    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 37169 | DUKE ENERGY CORP BELEWS CREEK STEAM     | 8042    | 2      | 3716900004 | G-18    | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 1      | 3719100017 | G-2     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 2      | 3719100017 | G-3     | Coal Steam | None                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 37191 | PROGRESS ENERGY F LEE PLANT             | 2709    | 3      | 3719100017 | G-4     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | None                     | Scrubber              |
| 45003 | SCE&G:URQUHART                          | 3295    | URQ3   | 0080-0011  | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 002     |            | None                     | None                  | None                     | None                  |                          |                       |                          |                       |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 003     |            | None                     | None                  | None                     | None                  |                          |                       |                          |                       |
| 45003 | SCE&G:SRS AREA D                        |         |        | 0080-0044  | 004     |            | None                     | None                  | None                     | None                  |                          |                       |                          |                       |
| 45007 | DUKE ENERGY:LEE                         | 3264    | 1      | 0200-0004  | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45007 | DUKE ENERGY:LEE                         | 3264    | 2      | 0200-0004  | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45007 | DUKE ENERGY:LEE                         | 3264    | 3      | 0200-0004  | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45015 | SANTEE COOPER JEFFERIES                 | 3319    | 1      | 0420-0003  | 001     | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | None                  | None                     | No Operation          |



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| FIPS  | Facility Name                    | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|----------------------------------|---------|--------|-----------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 2      | 0420-0003 | 002     | O/G Steam  | No Operation             | No Operation          | None                     | No Operation          | No Operation             | No Operation          | None                     | No Operation          |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 3      | 0420-0003 | 003     | Coal Steam | None                     | SCR                   | None                     | SCR                   | None                     | None                  | None                     | None                  |
| 45015 | SANTEE COOPER JEFFERIES          | 3319    | 4      | 0420-0003 | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45015 | SCE&G:WILLIAMS                   | 3298    | WIL1   | 0420-0006 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 1      | 0420-0030 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 2      | 0420-0030 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 3      | 0420-0030 | 3       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 45015 | SANTEE COOPER CROSS              | 130     | 4      | 0420-0030 | 4       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN1   | 0740-0002 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN2   | 0740-0002 | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45029 | SCE&G:CANADYS                    | 3280    | CAN3   | 0740-0002 | 003     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | None                  | Scrubber                 | None                  |
| 45031 | PROGRESS ENERGY ROBINSON STATION | 3251    | 1      | 0820-0002 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45043 | SANTEE COOPER WINYAH             | 6249    | 1      | 1140-0005 | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 45043 | SANTEE COOPER WINYAH             | 6249    | 2      | 1140-0005 | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 45043 | SANTEE COOPER WINYAH             | 6249    | 3      | 1140-0005 | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 45043 | SANTEE COOPER WINYAH             | 6249    | 4      | 1140-0005 | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 45051 | SANTEE COOPER GRAINGER           | 3317    | 1      | 1340-0003 | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix I

300

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| Post-Combustion Controls |                               |         |        |             |         |            |                          |                       |                          |                       |                          |                       |                          |                       |
|--------------------------|-------------------------------|---------|--------|-------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| FIPS                     | Facility Name                 | ORIS ID | BLR ID | SITE ID     | UNIT ID | Plant Type | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 45051                    | SANTEE COOPER GRAINGER        | 3317    | 2      | 1340-0003   | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45063                    | SCE&G:MCMEEKIN                | 3287    | MCM1   | 1560-0003   | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45063                    | SCE&G:MCMEEKIN                | 3287    | MCM2   | 1560-0003   | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 45075                    | SCE&G:COPE                    | 7210    | COP1   | 1860-0044   | 001     | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 45079                    | SCE&G:WATEREE                 | 3297    | WAT1   | 1900-0013   | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | None                  |
| 45079                    | SCE&G:WATEREE                 | 3297    | WAT2   | 1900-0013   | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | None                  | Scrubber                 | Scrubber              |
| 45029                    | GENERIC UNIT                  | 9001 45 | GSC4 5 | ORIS900 145 | GSC45   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 45031                    | GENERIC UNIT                  | 9002 45 | GSC4 5 | ORIS900 245 | GSC45   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 45031                    | GENERIC UNIT                  | 9003 45 | GSC4 5 | ORIS900 345 | GSC45   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 45039                    | GENERIC UNIT                  | 9004 45 | GSC4 5 | ORIS900 445 | GSC45   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 45043                    | GENERIC UNIT                  | 9005 45 | GSC4 5 | ORIS900 545 | GSC45   | Coal Steam | No Operation             | No Operation          | Cross Unit 4             | SCR                   | No Operation             | No Operation          | Cross Unit 4             | Scrubber              |
| 47001                    | TVA BULL RUN FOSSIL PLANT     | 3396    | 1      | 0009        | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 47073                    | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 1      | 0007        | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47073                    | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 2      | 0007        | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47073                    | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 3      | 0007        | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47073                    | TVA JOHN SEVIER FOSSIL PLANT  | 3405    | 4      | 0007        | 004     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47085                    | TVA JOHNSONVILLE FOSSIL PLANT | 3406    | 1      | 0011        | 001     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |

Appendix I

MACTEC, Inc.

Appendix I

301

MACTEC, Inc.



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

|       |                               | Post-Combustion Controls |        |         |         |            |                          |                       |                          |                       |                          |                       |                          |                       |
|-------|-------------------------------|--------------------------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                               | ORIS ID                  | BLR ID | SITE ID | UNIT ID | Plant Type | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| FIPS  | Facility Name                 |                          |        |         |         |            |                          |                       |                          |                       |                          |                       |                          |                       |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 2      | 0011    | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 3      | 0011    | 003     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 4      | 0011    | 004     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 5      | 0011    | 005     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 6      | 0011    | 006     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 7      | 0011    | 007     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 8      | 0011    | 008     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 9      | 0011    | 009     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47085 | TVA JOHNSONVILLE FOSSIL PLANT | 3406                     | 10     | 0011    | 010     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 1      | 0013    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 2      | 0013    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 3      | 0013    | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 4      | 0013    | 004     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 5      | 0013    | 005     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 6      | 0013    | 006     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 7      | 0013    | 007     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47145 | TVA KINGSTON FOSSIL PLANT     | 3407                     | 8      | 0013    | 008     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |

Appendix I

MACTEC, Inc.

Appendix I

302

MACTEC, Inc.



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| FIPS  | Facility Name                         | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|---------------------------------------|---------|--------|---------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                       |         |        |         |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 47145 | TVA KINGSTON FOSSIL PLANT             | 3407    | 9      | 0013    | 009     | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 1      | 00528   | Boiler1 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 2      | 00528   | Boiler2 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47157 | ALLEN FOSSIL PLANT                    | 3393    | 3      | 00528   | Boiler3 | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | None                     | None                  | None                     | None                  |
| 47161 | TVA CUMBERLAND FOSSIL PLANT           | 3399    | 1      | 0011    | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 47161 | TVA CUMBERLAND FOSSIL PLANT           | 3399    | 2      | 0011    | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 1      | 0025    | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 2      | 0025    | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 3      | 0025    | 003     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 47165 | TVA GALLATIN FOSSIL PLANT             | 3403    | 4      | 0025    | 004     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              |
| 51031 | DOMINION - ALTAVISTA POWER STATION    | 10773   | 1      | 00156   | 1       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51031 | DOMINION - ALTAVISTA POWER STATION    | 10773   | 2      | 00156   | 2       |            | 0                        | 0                     | 0                        | 0                     | 0                        | 0                     | 0                        | 0                     |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 3      | 00002   | 3       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | Scrubber                 | None                  |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 4      | 00002   | 4       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 5      | 00002   | 6       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 51041 | DOMINION - CHESTERFIELD POWER STATION | 3797    | 6      | 00002   | 8       | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51065 | DOMINION - BREMO POWER STATION        | 3796    | 3      | 00001   | 1       | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |

Appendix I

303

MACTEC, Inc.



**APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&F INVENTORY**

| FIPS  | Facility Name                              | ORIS ID | BLR ID | SITE ID | UNIT ID | Plant Type     | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|---------|---------|----------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |         |         |                | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 51065 | DOMINION - BREMO POWER STATION             | 3796    | 4      | 00001   | 2       | Coal Steam     | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | None                     | None                  |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 51     | 00002   | 1       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 52     | 00002   | 2       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 51071 | AMERICAN ELECTRIC POWER GLEN LYN           | 3776    | 6      | 00002   | 3       | Coal Steam     | None                     | None                  | None                     | None                  | None                     | None                  | None                     | Scrubber              |
| 51083 | DOMINION - CLOVER POWER STATION            | 7213    | 1      | 00046   | 1       | Coal Steam     | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51083 | DOMINION - CLOVER POWER STATION            | 7213    | 2      | 00046   | 2       | Coal Steam     | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51099 | BIRCHWOOD POWER PARTNERS, L.P.             | 54304   | 1      | 00012   | 1       | Coal Steam     | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51117 | Mecklenburg Cogeneration Facility          | 52007   | GEN1   | 00051   | 1       | Coal Steam     | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51117 | Mecklenburg Cogeneration Facility          | 52007   | GEN2   | 00051   | 2       | Coal Steam     | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 3      | 00002   | 3       | Coal Steam     | None                     | Combine d Cycle       | None                     | Combine d Cycle       | None                     | Combine d Cycle       | Combine d Cycle          | Combine d Cycle       |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 4      | 00002   | 4       | Coal Steam     | None                     | Combine d Cycle       | None                     | Combine d Cycle       | None                     | Combine d Cycle       | Combine d Cycle          | Combine d Cycle       |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 5      | 00002   | 5       | O/G Steam      | None                     | No Operation          | None                     | No Operation          | None                     | No Operation          | No Operation             | No Operation          |
| 51153 | DOMINION - POSSUM POINT                    | 3804    | 6      | 00002   |         | Combined Cycle | Combine d Cycle          | Combine d Cycle       | Combine d Cycle          | Combine d Cycle       | Combine d Cycle          | Combine d Cycle       | Combine d Cycle          | Combine d Cycle       |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 1      | 00003   | 1       | Coal Steam     | None                     | None                  | SNCR                     | SCR                   | None                     | Emission Cap          | Scrubber                 | Scrubber              |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 2      | 00003   | 2       | Coal Steam     | None                     | None                  | SNCR                     | SCR                   | None                     | Emission Cap          | Scrubber                 | Scrubber              |
| 51167 | AMERICAN ELECTRIC POWER CLINCH RIVER PLANT | 3775    | 3      | 00003   | 3       | Coal Steam     | None                     | None                  | SNCR                     | SCR                   | None                     | Emission Cap          | Scrubber                 | Scrubber              |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                     | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|-----------------------------------|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |                                   |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 51175 | LG&E Westmoreland Southampton     | 10774   | GEN1   | 00051      | 1       | Coal Steam | None                     | None                  | None                     | None                  | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 51175 | LG&E Westmoreland Southampton     |         |        | 00051      | 2       |            | None                     | None                  | None                     | 0                     | 0                        | 0                     | 0                        | 0                     |
| 51175 | LG&E Westmoreland Southampton     |         |        | 00051      | 4       |            | None                     | None                  | None                     | 0                     | 0                        | 0                     | 0                        | 0                     |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 3      | 00001      | 3       | O/G Steam  | SNCR                     | No Operation          | SNCR                     | No Operation          | None                     | No Operation          | Scrubber                 | No Operation          |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 2      | 00001      | 5       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | None                  |
| 51199 | DOMINION - YORKTOWN POWER STATION | 3809    | 1      | 00001      | 6       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 1      | 00003      | 1       | Coal Steam | SNCR                     | Coal Early Retirement | SNCR                     | Coal Early Retirement | None                     | Coal Early Retirement | None                     | Coal Early Retirement |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 2      | 00003      | 2       | Coal Steam | SNCR                     | Coal Early Retirement | SNCR                     | Coal Early Retirement | None                     | Coal Early Retirement | None                     | Coal Early Retirement |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 3      | 00003      | 3       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  | None                     | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 4      | 00003      | 4       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  | None                     | None                  |
| 51510 | POTOMAC RIVER GENERATING STATION  | 3788    | 5      | 00003      | 5       | Coal Steam | SNCR                     | None                  | SNCR                     | None                  | None                     | None                  | None                     | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 1      | 00026      | 1       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Low S Coal               | None                  | Scrubber                 | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 2      | 00026      | 2       | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | Low S Coal               | None                  | Scrubber                 | None                  |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 3      | 00026      | 3       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Low S Coal               | None                  | Scrubber                 | Scrubber              |
| 51550 | DOMINION - CHESAPEAKE             | 3803    | 4      | 00026      | 4       | Coal Steam | SCR                      | None                  | SCR                      | SCR                   | Low S Coal               | None                  | Scrubber                 | Scrubber              |
| 51159 | GENERIC UNIT                      | 900151  | GSC51  | ORIS900151 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |

Appendix I



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                          | ORIS ID | BLR ID | SITE ID     | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|-------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |             |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM SO2 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 51167 | GENERIC UNIT                           | 9002 51 | GSC5 1 | ORIS900 251 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 51195 | GENERIC UNIT                           | 9002 51 | GSC5 1 | ORIS900 251 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 51175 | GENERIC UNIT                           | 9003 51 | GSC5 1 | ORIS900 351 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 51175 | GENERIC UNIT                           | 9004 51 | GSC5 1 | ORIS900 451 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 51181 | GENERIC UNIT                           | 9005 51 | GSC5 1 | ORIS900 551 | GSC51   | Coal Steam | No Operation             | No Operation          | SCR                      | SCR                   | No Operation             | No Operation          | Scrubber                 | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT                | 3954    | 1      | 0003        | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT                | 3954    | 2      | 0003        | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54023 | MOUNT STORM POWER PLANT                | 3954    | 3      | 0003        | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54023 | NORTH BRANCH POWER STATION             | 7537    | 1A     | 0014        | 001     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54023 | NORTH BRANCH POWER STATION             | 7537    | 1B     | 0014        | 002     | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54025 | WESTERN GREENBRIER                     |         |        | 00066       | GEN1    | Coal Steam | No Operation             | No Operation          | SCR                      | No Operation          | No Operation             | No Operation          | SCR                      | No Operation          |
| 54033 | MONONGAHELA POWER CO HARRISON          | 3944    | 1      | 0015        | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54033 | MONONGAHELA POWER CO HARRISON          | 3944    | 2      | 0015        | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54033 | MONONGAHELA POWER CO HARRISON          | 3944    | 3      | 0015        | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54039 | APPALACHIAN POWER KANAWHA RIVER PLANT  | 3936    | 1      | 0006        | 001     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54039 | APPALACHIAN POWER KANAWHA RIVER PLANT  | 3936    | 2      | 0006        | 002     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54049 | MONONGAHELA POWER CO. RIVESVILLE POWER | 3945    | 7      | 0009        | 001     | Coal Steam | None                     | Coal Early            | None                     | Coal Early            | None                     | Coal Early            | Coal Early               | Coal Early            |

Appendix I

MACTEC, Inc.

Appendix I

306

MACTEC, Inc.



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

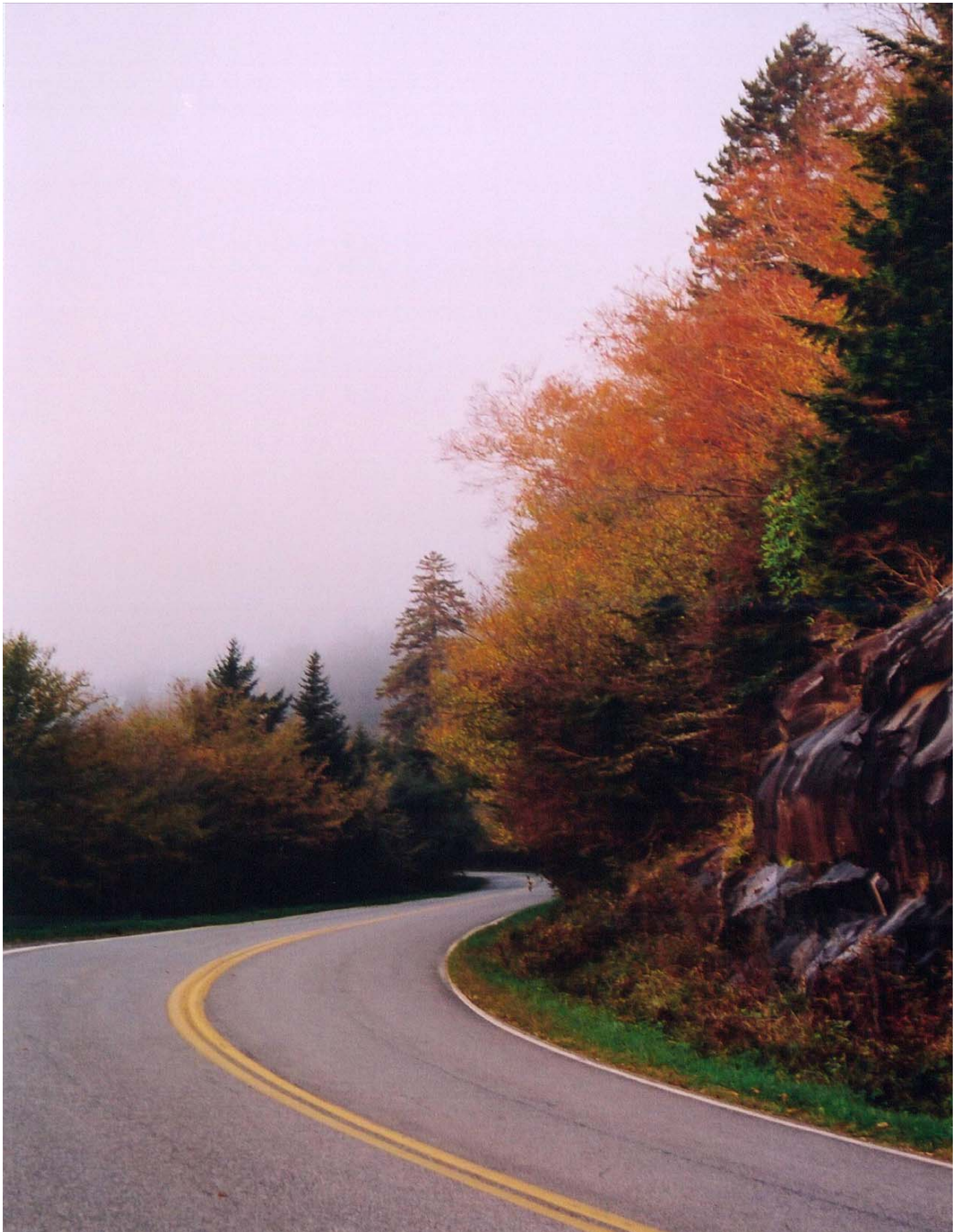
| FIPS  | Facility Name                            | ORIS ID | BLR ID | SITE ID   | UNIT ID | Plant Type | Post-Combustion Controls |                        |                          |                       |                          |                        |                          |                        |                        |
|-------|--|---------|--------|-----------|---------|------------|--------------------------|------------------------|--------------------------|-----------------------|--------------------------|------------------------|--------------------------|------------------------|------------------------|
|       |  |         |        |           |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls  | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls  | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls  |                        |
|       |  |         |        |           |         |            |                          | Retireme nt            |                          |                       | Retireme nt              |                        | Retireme nt              |                        | Retireme nt            |
| 54049 | MONONGAHELA POWER CO. RIVESVILLE POWER   | 3945    | 8      | 0009      | 002     | Coal Steam | None                     | Coal Early Retireme nt | None                     | None                  | Coal Early Retireme nt   | Coal Early Retireme nt | Coal Early Retireme nt   | Coal Early Retireme nt | Coal Early Retireme nt |
| 54049 | AMERICAN BITUMINOUS POWER GRANT TOWN PLT | 10151   |        | 0026      | 001     |            | None                     | None                   | None                     | None                  | Scrubber                 | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54049 | GRANT TOWN POWER PLANT                   | 10151   | GEN1   | ORIS10151 | GEN1    | Coal Steam | SNCR                     | None                   | None                     | None                  | Scrubber                 | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54051 | OHIO POWER MITCHELL PLANT                | 3948    | 1      | 0005      | 001     | Coal Steam | SCR                      | SCR                    | SCR                      | SCR                   | Scrubber                 | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54051 | OHIO POWER MITCHELL PLANT                | 3948    | 2      | 0005      | 002     | Coal Steam | SCR                      | SCR                    | SCR                      | SCR                   | Scrubber                 | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 1      | 0006      | 001     | Coal Steam | None                     | SCR                    | SCR                      | SCR                   | None                     | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 2      | 0006      | 002     | Coal Steam | None                     | SCR                    | SCR                      | SCR                   | None                     | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54051 | OHIO POWER KAMMER PLANT                  | 3947    | 3      | 0006      | 003     | Coal Steam | None                     | SCR                    | SCR                      | SCR                   | None                     | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 11     | 0001      | 001     | Coal Steam | None                     | None                   | SCR                      | SCR                   | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 21     | 0001      | 002     | Coal Steam | None                     | None                   | SCR                      | SCR                   | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 31     | 0001      | 003     | Coal Steam | None                     | None                   | SCR                      | SCR                   | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 41     | 0001      | 004     | Coal Steam | None                     | None                   | SCR                      | SCR                   | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER CO. PHILIP SPORN PLANT | 3938    | 51     | 0001      | 005     | Coal Steam | None                     | None                   | SCR                      | SCR                   | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |
| 54053 | APPALACHIAN POWER MOUNTAINEER PLANT      | 6264    | 1      | 0009      |         | Coal Steam | SCR                      | SCR                    | SCR                      | SCR                   | Scrubber                 | Scrubber               | Scrubber                 | Scrubber               | Scrubber               |
| 54061 | MONONGAHELA POWER CO. FORT MARTIN POWER  | 3943    | 1      | 0001      | 001     | Coal Steam | SNCR                     | SNCR                   | SNCR                     | SNCR                  | None                     | None                   | Scrubber                 | Scrubber               | Scrubber               |



## APPENDIX I: EGU CONTROLS FOR COAL AND OIL/GAS UNITS FOR THE B&amp;F INVENTORY

| FIPS  | Facility Name                                | ORIS ID | BLR ID | SITE ID    | UNIT ID | Plant Type | Post-Combustion Controls |                       |                          |                       |                          |                       |                          |                       |
|-------|--|---------|--------|------------|---------|------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
|       |  |         |        |            |         |            | VISTAS NOx 2009 Controls | IPM NOx 2009 Controls | VISTAS NOx 2018 Controls | IPM NOx 2018 Controls | VISTAS SO2 2009 Controls | IPM SO2 2009 Controls | VISTAS SO2 2018 Controls | IPM SO2 2018 Controls |
| 54061 | MONONGAHELA POWER CO. FORT MARTIN POWER      | 3943    | 2      | 0001       | 002     | Coal Steam | SNCR                     | SNCR                  | SNCR                     | SNCR                  | None                     | None                  | Scrubber                 | Scrubber              |
| 54061 | MORGANTOWN ENERGY ASSOCIATES                 |         |        | 0027       | 043     |            | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54061 | MORGANTOWN ENERGY FACILITY                   | 10743   | GEN1   | ORIS10743  | GEN1    | Coal Steam | None                     | None                  | None                     | None                  | None                     | None                  | None                     | None                  |
| 54061 | LONGVIEW                                     |         |        | 00134      | GEN1    | Coal Steam | No Operation             | No Operation          | SCR                      | No Operation          | No Operation             | No Operation          | Scrubber                 | No Operation          |
| 54061 | GENERIC UNIT                                 | 900154  | GSC54  | ORIS900154 | GSC54   | Coal Steam | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | No Operation          | No Operation             | Scrubber              |
| 54073 | MONONGAHELA POWER CO. WILLOW ISLAND          | 3946    | 1      | 0004       | 001     | Coal Steam | None                     | Coal Early Retirement | None                     | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54073 | MONONGAHELA POWER CO. WILLOW ISLAND          | 3946    | 2      | 0004       | 002     | Coal Steam | None                     | SCR                   | SCR                      | SCR                   | None                     | Scrubber              | Scrubber                 | Scrubber              |
| 54073 | MONONGAHELA POWER CO PLEASANTS POWER STATION | 6004    | 1      | 0005       | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 54073 | MONONGAHELA POWER CO PLEASANTS POWER STATION | 6004    | 2      | 0005       | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber Upgrade         | Scrubber              | Scrubber Upgrade         | Scrubber              |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 1      | 0001       | 001     | Coal Steam | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 2      | 0001       | 002     | Coal Steam | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement | None                     | Coal Early Retirement | Coal Early Retirement    | Coal Early Retirement |
| 54077 | MONONGAHELA POWER CO ALBRIGHT                | 3942    | 3      | 0001       | 003     | Coal Steam | None                     | None                  | SCR                      | SCR                   | None                     | None                  | Scrubber                 | Scrubber              |
| 54079 | APPALACHIAN POWER JOHN E AMOS PLANT          | 3935    | 1      | 0006       | 001     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54079 | APPALACHIAN POWER JOHN E AMOS PLANT          | 3935    | 2      | 0006       | 002     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |
| 54079 | APPALACHIAN POWER JOHN E AMOS PLANT          | 3935    | 3      | 0006       | 003     | Coal Steam | SCR                      | SCR                   | SCR                      | SCR                   | Scrubber                 | Scrubber              | Scrubber                 | Scrubber              |







**Development of the  
VISTAS Draft 2002  
Mobile Source  
Emission Inventory  
(February 2004  
Version)**

**PECHAN**

5528-B Hempstead Way  
Springfield, VA 22151

703-813-6700 telephone  
703-813-6729 facsimile

3622 Lyckan Parkway  
Suite 2002  
Durham, NC 27707

919-493-3144 telephone  
919-493-3182 facsimile

P.O. Box 1345  
El Dorado, CA 95623

530-295-2995 telephone  
530-295-2999 facsimile

Prepared for:

VISTAS  
59 Woodfin Place  
Asheville, NC 28801

Prepared by:

Maureen A. Mullen  
Kirstin B. Thesing  
E.H. Pechan & Associates, Inc.  
5528-B Hempstead Way  
Springfield, VA 22151

February 9, 2004

Pechan Rpt. No. 04.01.002/9440.000



*[This page intentionally left blank]*



# CONTENTS

|   | Page      |
|---|-----------|
| <b>TABLES</b> .....   | iv        |
| <b>FIGURES</b> .....  | v         |
| <b>ACRONYMS AND ABBREVIATIONS</b> .....                                   | vi        |
| <b>I. INTRODUCTION/BACKGROUND</b> .....                                   | <b>1</b>  |
| <b>II. ONROAD METHODS AND DATA</b> .....                                  | <b>2</b>  |
| A. 2002 VMT DEVELOPMENT .....   | 2         |
| 1. Conversion to Annual VMT .....   | 2         |
| 2. Projection to 2002.....  | 3         |
| 3. Splitting VMT by Road Type.....  | 4         |
| a. Allocation of VMT to Vehicle Type using Default VMT Mix Data .....     | 4         |
| b. Allocation of VMT to Vehicle Type using State-Provided VMT Mix Data .. | 6         |
| c. Allocation of VMT by Month.....  | 6         |
| B. 2002 ONROAD EMISSION FACTOR DEVELOPMENT USING MOBILE6.2 .....          | 8         |
| 1. General MOBILE6.2 File Structure .....                                 | 8         |
| C. 2002 ONROAD EMISSION INVENTORY CALCULATIONS .....                      | 14        |
| D. DATA PROVIDED BY STATE AND LOCAL AGENCIES .....                        | 14        |
| 1. Temperature.....   | 21        |
| 2. I/M and ATP Programs .....   | 21        |
| 3. RVP and Fuel Programs .....  | 21        |
| <b>III. NONROAD METHODS AND DATA</b> .....                                | <b>22</b> |
| A. NONROAD MODEL CATEGORIES .....   | 22        |
| B. AIRCRAFT, COMMERCIAL MARINE VESSELS AND LOCOMOTIVES .....              | 23        |
| 2. CMV Improvements .....   | 28        |
| a. Current Allocation Method .....  | 28        |
| b. Revised Port Allocation Method.....                                    | 29        |
| 3. Projection Methods.....  | 40        |
| <b>IV. ONROAD REFUELING METHODS</b> .....                                 | <b>42</b> |
| A. CONTROLS .....   | 42        |
| B. METHODS .....  | 43        |
| <b>V. NONROAD REFUELING METHODS</b> .....                                 | <b>44</b> |
| <b>VI. SUMMARY OF RESULTS</b> .....                                       | <b>45</b> |
| A. ONROAD RESULTS .....   | 45        |
| B. NONROAD RESULTS .....  | 47        |
| <b>VII. OBSERVATIONS AND RECOMMENDATIONS FOR IMPROVEMENT</b> .....        | <b>51</b> |
| A. ONROAD SECTOR IMPROVEMENTS .....                                       | 51        |
| B. NONROAD SECTOR IMPROVEMENTS .....                                      | 52        |
| <b>VIII. REFERENCES</b> .....   | <b>52</b> |



# TABLES

|  |    |
|--|----|
| Table II-1. VMT Data Provided by State/Local Agencies .....  | 3  |
| Table II-2. VMT Growth Factors Used for Virginia .....   | 4  |
| Table II-3. Allocation of VMT from HPMS Vehicle Categories to MOBILE6 Vehicle Types for 2001.....  | 5  |
| Table II-4. Default VMT Seasonal and Monthly Temporal Allocation Factors.....  | 7  |
| Table II-5. Default Speeds Modeled by Road Type and Vehicle Type.....  | 13 |
| Table II-6. Summary of Onroad Data Provided by Alabama .....   | 15 |
| Table II-7. Summary of Onroad Data Provided by Florida .....   | 15 |
| Table II-8. Summary of Onroad Data Provided by Georgia.....  | 16 |
| Table II-9. Summary of Onroad Data Provided by Kentucky .....  | 17 |
| Table II-10. Summary of Onroad Data Provided by Mississippi .....  | 18 |
| Table II-11. Summary of Onroad Data Provided by North Carolina .....   | 18 |
| Table II-12. Summary of Onroad Data Provided by South Carolina .....   | 19 |
| Table II-13. Summary of Onroad Data Provided by Tennessee .....  | 19 |
| Table II-14. Summary of Onroad Data Provided by Virginia .....   | 20 |
| Table II-15. Summary of Onroad Data Provided by West Virginia.....   | 20 |
| Table III-1. Summary of Comments by S/L/T Agencies on NONROAD Model Input Values Distributed in July 2003.....                                   | 22 |
| Table III-2. Summary of S/L/T Agency Data Incorporated into the Draft VISTAS 2002 Other Nonroad Inventory .....                                  | 23 |
| Table III-3a. Replacement Procedures for 1999 Locomotive Emissions for Pickens and Tuscaloosa County, Alabama .....                              | 24 |
| Table III-3b. Replacement Procedures for 1999 Aircraft, Locomotive, and Commercial Marine Vessel Emissions for Palm Beach County, Florida .....  | 25 |
| Table III-3c. Replacement Procedures for 1999 Aircraft and Locomotive Emissions for Davidson County, Tennessee.....                              | 26 |
| Table III-3d. Replacement Procedures for 1999 Aircraft, Locomotive, and Commercial Marine Vessel Emissions for Sample Counties in Virginia ..... | 27 |
| Table III-4. Port Areas Located in VISTAS and Adjoining States.....  | 32 |
| Table III-5. List of VISTAS Ports and Ports of Adjoining States .....  | 33 |
| Table III-6. Definition of Port Areas Obtained from Waterborne Commerce .....  | 36 |
| Table III-7a. Growth Factors for Railroad Distillate Fuel Oil Use.....   | 40 |
| Table III-7b. 2002 National Rail Transportation Energy Use by Fuel Type.....   | 41 |
| Table III-8. Growth Factors for Commercial Marine Vessel Distillate and Residual Fuel Oil Use .....  | 42 |
| Table IV-1. Onroad Stage II Control Programs.....  | 43 |
| Table V-1. 2002 Draft Stage II Refueling Emissions by State .....  | 45 |
| Table VI-1. 2002 VISTAS Onroad Emissions and VMT by State.....   | 46 |
| Table VI-2. 1999 NEI Version 2 Onroad Emissions and VMT by State .....   | 46 |
| Table VI-3. Change in Onroad Emissions and VMT from 1999 NEI Version 2 to VISTAS 2002 Inventory .....  | 47 |
| Table VI-4. 2002 VISTAS Annual Onroad Refueling Emissions.....   | 47 |
| Table VI-5. Summary of Draft 2002 Nonroad Sector Annual Emissions by State .....   | 48 |
| Table VI-6. Summary of Draft 2002 NONROAD Model Emission Estimates by State.....   | 49 |



|  |    |
|--|----|
| Table VI-7. Summary of Draft 2002 Other Nonroad* Emission Estimates by State ..... | 50 |
|--|----|

## FIGURES

|   |    |
|---|----|
| Figure II-1. Header Section of MOBILE6.2 Input File Including VOC Exhaust and PM <sub>10</sub><br>Emission Factors .....      | 9  |
| Figure II-2. Header Section of MOBILE6.2 Input File Including VOC Evaporative and PM <sub>2.5</sub><br>Emission Factors ..... | 9  |
| Figure II-3. Run Data Section of a MOBILE6.2 Input File .....   | 10 |
| Figure II-4. Run Data Section of a MOBILE6.2 Input File with Significant Local Inputs .....                                   | 10 |
| Figure II-5. Sample Scenario for a Typical MOBILE6.2 Input File .....   | 12 |
| Figure III-1. VISTAS Region and Surrounding States, <i>Underway NO<sub>x</sub> Emissions</i> .....                            | 30 |
| Figure III-2. VISTAS Region and Surrounding States, <i>Port NO<sub>x</sub> Emissions</i> .....                                | 31 |
| Figure III-3. VISTAS Region and Surrounding States, <i>Revised Port Emissions of NO<sub>x</sub></i> .....                     | 35 |



# ACRONYMS AND ABBREVIATIONS

|                   |   |
|-------------------|---|
| ATADS             | Air Traffic Activity Data System  |
| ATP               | anti-tampering program  |
| BTS               | Bureau of Transportation Statistics   |
| BTU               | British thermal unit  |
| CMV               | commercial marine vessels   |
| CNG               | compressed natural gas  |
| CO                | carbon monoxide   |
| DOT               | Department of Transportation  |
| EIA               | Energy Information Administration   |
| EPA               | U.S. Environmental Protection Agency  |
| FHWA              | Federal Highway Administration  |
| FIPS              | Federal Information Processing Standards  |
| GF                | growth factor   |
| HDDV              | heavy-duty diesel vehicle   |
| HDGV              | heavy-duty gasoline vehicle   |
| HPMS              | Highway Performance Monitoring System   |
| I/M               | inspection and maintenance  |
| LDDT              | light-duty diesel truck   |
| LDDV              | light-duty diesel vehicle   |
| LDGT              | light-duty gasoline truck   |
| LDGV              | light-duty gasoline vehicle   |
| LPG               | liquified petroleum gas   |
| LTO               | landing and takeoff   |
| MC                | motorcycle  |
| mg                | milligram   |
| NAPAP             | National Acid Precipitation Assessment Program  |
| NEI               | National Emission Inventory   |
| NH <sub>3</sub>   | ammonia   |
| NO <sub>x</sub>   | oxides of nitrogen  |
| OTAQ              | Office of Transportation and Air Quality  |
| Pechan            | E.H. Pechan & Associates, Inc.  |
| PM <sub>2.5</sub> | particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers |
| PM <sub>10</sub>  | particulate matter with an aerodynamic diameter less than or equal to 10 micrometers  |
| ppmv              | parts per million volume  |
| RFG               | reformulated gasoline   |
| RVP               | Reid vapor pressure   |
| SCC               | source classification code  |
| S/L/T             | State/Local/Tribal  |
| SO <sub>2</sub>   | sulfur dioxide  |
| USACE             | U.S. Army Corps of Engineers  |
| VISTAS            | Visibility Improvement-State and Tribal Association of the Southeast                  |
| VMT               | vehicle miles traveled  |
| VOC               | volatile organic compound   |



## I. INTRODUCTION/BACKGROUND

The Visibility Improvement – State and Tribal Association of the Southeast (VISTAS) has contracted with E.H. Pechan & Associates, Inc. (Pechan) to prepare a 2002 mobile source emissions inventory. The purpose of this emissions inventory is to support the modeling and assessment of speciated particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers (PM<sub>2.5</sub>). Through this contract, Pechan first prepared an inventory review document. This document summarized several regional and national emission inventory efforts and identified strengths and weaknesses associated with the use of these inventories in regional haze modeling. This document also summarized data submittals by State and local air agencies within the VISTAS region that could be used in the VISTAS 2002 mobile source emissions inventory.

Since that time, the State and local air agencies have updated their submittals for the mobile source sectors, including both onroad vehicles and nonroad engines. In July of 2003, Pechan delivered sets of inputs to the NONROAD model option files and MOBILE6.2 input files and vehicle miles traveled (VMT) data for each State and local agency to review. For the onroad sector, the MOBILE6.2 input files and VMT data represented Pechan's processing of the State and local inputs in a consistent manner for use in calculating the 2002 onroad emissions inventory. The MOBILE6.2 input files and VMT data included as much of the local data supplied by the State and local agencies as possible, with missing information filled in with appropriate default data. The data delivered by Pechan for the State and local agencies to review related to the nonroad sector was primarily in the form of temperature and fuel data that would be used as inputs to the NONROAD model. It should be noted that the nonroad sector inputs were completed first and did not include some of the later temperature and fuel updates that did get incorporated in the onroad data.

The State and local agencies were given a brief period to review, comment upon, and make updated submittals to the onroad and nonroad inputs that were delivered in July 2003. After receiving these comments and updated data, Pechan updated the appropriate MOBILE6.2 input files, VMT data, and nonroad inputs with the revised State and local data. Pechan then calculated 2002 onroad and nonroad emissions from these inputs. Pechan presented the preliminary results of these emission inventories at a VISTAS meeting on August 28, 2003. These draft August 2003 emission estimates, including inputs and methodology, were documented in a draft report circulated to VISTAS in October 2003. This October 2003 report also included documentation of draft 2002 refueling emissions from onroad and nonroad sources. The VISTAS States were asked to review this document, as well as the supporting files provided by Pechan, and provide comments or revisions by December 2003. Onroad and nonroad 2002 emissions for the VISTAS States have since been calculated based on the updates provided by the States. This report documents the inputs and methodologies used in the February 2004 version of the VISTAS 2002 onroad and nonroad mobile source emission inventories.



## **II. ONROAD METHODS AND DATA**

### **A. 2002 VMT DEVELOPMENT**

Table II-1 summarizes the type of VMT data submitted by each agency. Depending upon the data submitted by the individual State or agency, up to three different procedures were performed on the data. First, VMT data that were not provided at the annual level were converted from daily VMT to annual VMT. Second, VMT provided for years other than 2002 were grown from the base year provided. Finally, the VMT were allocated by vehicle type, if not already at that level of detail. The section discusses each of these procedures in more detail.

It should be noted that although the format and content of the VMT provided by the VISTAS State and Local agencies varied significantly from agency to agency, this draft 2002 VISTAS inventory is based at a minimum on county/roadway type specific VMT, as provided by the individual agencies. This is a significant improvement over the spatial allocation methods used in the U.S. Environmental Protection Agency's (EPA's) National Emission Inventory (NEI) for onroad vehicles.

#### **1. Conversion to Annual VMT**

For use in the emission calculations, Pechan's ultimate goal with the VMT data was to develop an annual 2002 VMT database by county, roadway type, and vehicle type. As indicated in Table II-1, the VMT data were submitted using three different time periods: annual, average annual day, and summer day. No temporal adjustments were applied to VMT data submitted as annual VMT. VMT data submitted as average annual day VMT were multiplied by 365 to convert from an average day to the annual time period. The Jefferson County, Kentucky VMT were submitted as summer day VMT. All annual VMT values were converted to units of millions of miles per year. Therefore, any VMT values submitted as miles were divided by a factor of 1,000,000 and VMT values submitted in units of 1,000 miles were divided by a factor of 1,000.

The Jefferson County, Kentucky VMT submittal included a single factor for converting the summer day VMT to average annual day VMT. Thus, the Jefferson County summer day VMT data were first multiplied by a factor of 0.97752 (the temporal conversion factor provided by Jefferson County) to obtain average annual day VMT. The VMT data were then multiplied by 365 to obtain the annual VMT.



**Table II-1. VMT Data Provided by State/Local Agencies**

| State/Area   | Time Period | 2002 Actual VMT by County/Road Type/Vehicle Type | 2002 Actual VMT by County/Road Type | 2002 Projected VMT by County/Road Type | 2002 VMT from TDM by County/Road Type/Vehicle Type | 1999 Actual VMT by County/Road Type/Vehicle Type |
|--|-------------|--|-------------------------------------|--|--|--|
| Alabama  | AAD         |  | X                                   |  |  |  |
| Florida  | AAD         |  | X                                   |  |  |  |
| Georgia  | AAD         |  | X                                   |  |  |  |
| Kentucky   | AAD         |  |                                     | X                                      |  |  |
| Jefferson County, KY   | SD          |  |                                     |  | X  |  |
| Mississippi  | ANN         | X  |                                     |  |  |  |
| North Carolina   | AAD         |  | X                                   |  |  |  |
| South Carolina   | ANN         |  | X                                   |  |  |  |
| Tennessee  | AAD         |  | X                                   |  |  |  |
| Virginia   | ANN         |  |                                     |  |  | X  |
| West Virginia  | ANN         | X  |                                     |  |  | X  |
| Time Period Codes: AAD=Average Annual Day, SD=Summer Day, ANN=Annual |             |  |                                     |  |  |  |

## 2. Projection to 2002

As indicated in Table II-1, the Virginia VMT submittal was for a base year of 1999 rather than 2002. Thus, these VMT data needed to be projected to 2002 before calculating emissions. For Virginia, growth factors were developed by roadway type for the period from 1999 to 2001 based on historical VMT data by roadway type from Table VM-2 “Functional System Travel” in DOT’s *Highway Statistics* series (DOT, 1999 and 2001). The growth factors, presented in Table II-2, were calculated by dividing Virginia’s 2001 VMT for each of the 12 roadway types from *Highway Statistics 2001* by the corresponding 1999 VMT from *Highway Statistics 1999*. For the period from 2001 to 2002, the growth factors were developed using data obtained from the U.S. Department of Transportation’s Traffic Volume Trends report (DOT, 2002). This monthly publication provides a comparison of preliminary 2002 VMT estimates with comparable 2001 VMT. For several roadway types, these data are provided only at a national level. However, for the combined rural interstates and arterials, these data are presented by State. The resultant data, used to project the 2001 Virginia VMT to 2002, are shown in Table II-2. The 2001 to 2002 growth factors represent the 2002 VMT divided by the 2001 VMT, based on the data Virginia for the rural interstates and arterials and on the national data for the remaining roadway types. Once the growth factors were developed, the Virginia 1999 VMT data were first multiplied by the appropriate 1999 to 2001 growth factor and then by the appropriate 2001 to 2002 growth factor.



**Table II-2. VMT Growth Factors Used for Virginia**

| <b>Roadway Type</b>              | <b>Roadway Type<br/>Portion of<br/>SCC</b> | <b>Virginia 1999<br/>to 2001 VMT<br/>Growth Factor</b> | <b>Virginia 2001<br/>to 2002 VMT<br/>Growth Factor</b> |
|----------------------------------|--|--|--|
| Rural Interstate                 | 110  | 1.043  | 1.035  |
| Rural Other Principal Arterial   | 130  | 1.050  | 1.035  |
| Rural Major Arterial             | 150  | 1.130  | 1.035  |
| Rural Major Collector            | 170  | 0.982  | 1.011  |
| Rural Minor Collector            | 190  | 1.032  | 1.011  |
| Rural Local                      | 210  | 0.923  | 1.011  |
| Urban Interstate                 | 230  | 1.050  | 1.024  |
| Urban Other Freeway & Expressway | 250  | 0.984  | 1.011  |
| Urban Other Principal Arterial   | 270  | 1.061  | 1.011  |
| Urban Minor Arterial             | 290  | 0.991  | 1.011  |
| Urban Collector                  | 310  | 0.925  | 1.013  |
| Urban Local                      | 330  | 0.690  | 1.013  |

Sources: U.S. Department of Transportation, Federal Highway Administration, "Traffic Volume Trends, December 2002", (<http://www.fhwa.dot.gov/ohim/tvtw/tvtpage.htm>); *Highway Statistics 1999*, and *Highway Statistics 2001* (<http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm>)

### 3. Splitting VMT by Road Type

The final step in developing a consistent 2002 VMT data base was to allocate VMT from the county and roadway type level of detail to the county/roadway type/vehicle type level of detail. As shown in Table II-1, the Jefferson County, Kentucky; Mississippi; Virginia; and West Virginia VMT data supplied for these jurisdictions already included the vehicle type level of detail, so this final adjustment was not needed for these areas. For the remaining areas, some provided VMT mix by vehicle type fractions while others provided no information on the allocation of VMT by vehicle. In this latter case, default VMT fraction data from EPA's MOBILE6 model were used.

The States for which MOBILE6 default VMT mix data were used are: Alabama, Florida, Georgia, Kentucky (excluding Boone County, Campbell County, Kenton County, and Jefferson County), and South Carolina. It should be noted that Georgia initially provided VMT fractions based on Georgia's HPMS classification count data, but after review of ten years of these data determined that they are not reflecting the trend towards increasing travel by light trucks. Georgia therefore decided it was more conservative to assume MOBILE6 default VMT fractions.

#### *a. Allocation of VMT to Vehicle Type using Default VMT Mix Data*

To calculate 2002 VMT at the county/roadway type/vehicle type level using national default data, the VMT totals by county and roadway type need to be allocated among the 28 MOBILE6 vehicle types. This was done based on the distribution of the 2001 rural and urban VMT among the six Highway Performance Monitoring Systems (HPMS) vehicle types found in Table VM-1 ("Annual Vehicle Distance Traveled in Miles and Related Data - 1999 - by Highway Category and Vehicle Type") of the Federal Highway Administration's (FHWA's) *Highway Statistics*



2001 (<http://www.fhwa.dot.gov/ohim/hs01/index.htm>) and a mapping of these HPMS vehicle categories to the 28 MOBILE6 vehicle types. This mapping of the MOBILE6 vehicle types to the HPMS vehicle types was developed by EPA's Office of Transportation and Air Quality (OTAQ) and is used in the development of the NEI. The data first needed to be expanded to the 28 vehicle type level of detail to obtain the proper cross reference between the HPMS and MOBILE6 vehicle types since the eight vehicle types used in the final VISTAS VMT data base cannot be directly mapped to the HPMS vehicle categories. First, the VMT totals for each of the six HPMS vehicle categories were calculated as a fraction of the total VMT. This calculation was performed separately for the rural VMT and the urban VMT. The resulting 2001 VMT fractions for rural VMT and urban VMT are shown in Table II-3. Note that 2002 VMT are not yet available at this level of detail. Using the default MOBILE6 VMT fractions for 2001 (since the HPMS data represents 2001), taken from a MOBILE6 output file for 2001, the MOBILE6 VMT fractions were renormalized among all MOBILE6 vehicle types mapped to a given HPMS vehicle category. This renormalization is shown in the final column of Table II-3.

**Table II-3. Allocation of VMT from HPMS Vehicle Categories to MOBILE6 Vehicle Types for 2001**

| HPMS Vehicle Category                    | HPMS 2001 Rural VMT Fractions | HPMS 2001 Urban VMT Fractions | MOBILE6 Vehicle Category | MOBILE6 2001 VMT Fractions by HPMS Category |
|--|-------------------------------|-------------------------------|--------------------------|---|
| Passenger Cars                           | 0.5454                        | 0.6065                        | LDGV                     | 0.9980                                      |
|  |                               |                               | LDDV                     | 0.0020                                      |
| Motorcycles                              | 0.0039                        | 0.0031                        | MC                       | 1.0000                                      |
| Other 2-Axle 4-Tire Vehicles             | 0.3368                        | 0.3375                        | LDGT1                    | 0.1565                                      |
|  |                               |                               | LDGT2                    | 0.5211                                      |
|  |                               |                               | LDGT3                    | 0.1585                                      |
|  |                               |                               | LDGT4                    | 0.0729                                      |
|  |                               |                               | LDDT12                   | 0.0005                                      |
|  |                               |                               | LDDT34                   | 0.0032                                      |
|  |                               |                               | HDGV2B                   | 0.0658                                      |
|  |                               |                               | HDDV2B                   | 0.0216                                      |
| Single-Unit 2-Axle 6-Tire or More Trucks | 0.0332                        | 0.0212                        | HDGV3                    | 0.0376                                      |
|  |                               |                               | HDGV4                    | 0.0206                                      |
|  |                               |                               | HDGV5                    | 0.0436                                      |
|  |                               |                               | HDGV6                    | 0.0934                                      |
|  |                               |                               | HDGV7                    | 0.0437                                      |
|  |                               |                               | HDDV3                    | 0.1023                                      |
|  |                               |                               | HDDV4                    | 0.0867                                      |
|  |                               |                               | HDDV5                    | 0.0380                                      |
|  |                               |                               | HDDV6                    | 0.2138                                      |
|  |                               |                               | HDDV7                    | 0.3205                                      |
| Combination Trucks                       | 0.0770                        | 0.0300                        | HDGV8A                   | 0.0001                                      |
|  |                               |                               | HDGV8B                   | 0.0000                                      |
|  |                               |                               | HDDV8A                   | 0.2191                                      |
|  |                               |                               | HDDV8B                   | 0.7808                                      |
| Buses                                    | 0.0037                        | 0.0017                        | HDGB                     | 0.1920                                      |
|  |                               |                               | HDDBT                    | 0.3258                                      |
|  |                               |                               | HDDBS                    | 0.4822                                      |
| Total                                    | 1.0000                        | 1.0000                        |                          |   |



To calculate VMT by vehicle type, each VMT value representing a given county and road type was multiplied by the product of the HPMS VMT fraction (selected depending upon whether the road type represent VMT on rural or urban roads) and the corresponding MOBILE6 VMT fraction by HPMS category. This process resulted in 28 VMT values at the county/roadway type/vehicle type level of detail for each county/roadway type VMT value in the original VMT file.

As an example, Table II-3 shows that the HPMS Passenger Car vehicle category accounts for 54.54 percent of the total VMT on rural road types and that the MOBILE6 LDGV category accounts for 99.8 percent of the VMT in the HPMS Passenger Car category. Therefore, a VMT value representing rural interstates would be multiplied by 0.5454 times 0.9980 (0.5443), to obtain the VMT total on rural interstates from LDGVs. Once all county/roadway type VMT values were expanded to the corresponding set of values of VMT at the county/roadway type/28 MOBILE6 vehicle type level of detail, the VMT data base was then totaled at the eight vehicle type level of detail (LDGV, LDGT1, LDGT2, HDGV, LDDV, LDDT, HDDV, MC).

***b. Allocation of VMT to Vehicle Type using State-Provided VMT Mix Data***

Both North Carolina and Tennessee provided VMT mix data at the eight vehicle type level of detail. The Tennessee data was provided for ten different county groupings, with a VMT mix provided for six aggregated roadway type categories. North Carolina provided statewide VMT mix fractions for each of the 12 roadway types. Since the VMT mix data for these two States were already at the eight vehicle type level, the procedure for allocating VMT by vehicle type was simpler than the procedure described above using the default data. Each county/roadway type VMT value was matched to the corresponding VMT mix for that county and roadway type and then separately multiplied by each of the eight VMT mix fractions to create eight VMT values by county/roadway type/vehicle type that would sum to the original VMT value at the county/roadway type level of detail.

***c. Allocation of VMT by Month***

The resulting annual county-level, vehicle, and roadway type-specific VMT data were temporally allocated to months during the emission calculations. National Acid Precipitation Assessment Program (NAPAP) temporal allocation factors were used to apportion the VMT to the four seasons. Monthly VMT data were obtained using a ratio between the number of days in a month and the number of days in the corresponding season. These temporal factors are shown in Table II-4. Several States provided some level of information on temporal adjustment factors for their VMT. These data were not used in this draft version of the 2002 VISTAS emission inventory due to time constraints. However, any State or locally supplied temporal adjustment factors will be included in the final version of the 2002 VISTAS onroad emission inventory.



**Table II-4. Default VMT Seasonal and Monthly Temporal Allocation Factors**

| Roadway Seasonal VMT Factors |              |        |        |        |        |  |  |  |  |  |  |  |  |
|------------------------------|--------------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|
| Vehicle Type                 | Roadway Type | Winter | Spring | Summer | Fall   |  |  |  |  |  |  |  |  |
| LDV,LDT,MC                   | Rural        | 0.2160 | 0.2390 | 0.2890 | 0.2560 |  |  |  |  |  |  |  |  |
| LDV,LDT,MC                   | Urban        | 0.2340 | 0.2550 | 0.2650 | 0.2450 |  |  |  |  |  |  |  |  |
| HDV                          | All          | 0.2500 | 0.2500 | 0.2500 | 0.2500 |  |  |  |  |  |  |  |  |

| Monthly VMT Factors |              |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Vehicle Type        | Roadway Type | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| LDV,LDT,MC          | Rural        | 0.0744 | 0.0672 | 0.0805 | 0.0779 | 0.0805 | 0.0942 | 0.0974 | 0.0974 | 0.0844 | 0.0872 | 0.0844 | 0.0744 |
| LDV,LDT,MC          | Urban        | 0.0806 | 0.0728 | 0.0859 | 0.0832 | 0.0859 | 0.0864 | 0.0893 | 0.0893 | 0.0808 | 0.0835 | 0.0808 | 0.0806 |
| HDV                 | All          | 0.0861 | 0.0778 | 0.0842 | 0.0815 | 0.0842 | 0.0815 | 0.0842 | 0.0842 | 0.0842 | 0.0852 | 0.0824 | 0.0861 |



## **B. 2002 ONROAD EMISSION FACTOR DEVELOPMENT USING MOBILE6.2**

The onroad emission factors used in the calculation of the VISTAS 2002 onroad emission inventory were generated using EPA's MOBILE6.2 emission factor model. In the development of the MOBILE6.2 input files, Pechan attempted to include as much of the relevant data supplied by the State and local agencies as possible, while at the same time, maintaining a generally similar overall structure to the MOBILE6.2 input files, such that the output emission factors could easily be matched to the appropriate VMT values. This section first discusses the overall general structure of the MOBILE6.2 input files. This is followed by details explaining how this general structure was adapted to include the State and local agency data and summaries of the types of data provided by each agency.

### **1. General MOBILE6.2 File Structure**

Each MOBILE6.2 input file is divided into three sections: the header section, the run data section, and the scenario section. Information contained in the header section is primarily related to defining the output format and content desired by the user. For the processing of the VISTAS emission calculations, the database output format, aggregated to the daily level, was the desired output format. In addition, for proper modeling of the VOC emissions, it was desired to calculate the exhaust VOC emissions separately from the evaporative VOC emissions. However, within the constraints of MOBILE6.2 in the daily aggregated database output format, it is not possible to obtain evaporative and exhaust VOC emission factors broken out separately within each scenario. It is also not possible to obtain emission factors for both PM<sub>10</sub> and PM<sub>2.5</sub> within a single MOBILE6.2 scenario. Therefore, two sets of MOBILE6.2 input files were created—one set to model VOC exhaust, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, and NH<sub>3</sub> emission factors and a second set to model VOC evaporative and PM<sub>2.5</sub> emission factors. Figure II-1 illustrates the header section of a sample VISTAS MOBILE6.2 input file used to generate the VOC exhaust, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, and NH<sub>3</sub> emission factors. Similarly, Figure II-2 illustrates the header section of a sample VISTAS MOBILE6.2 input file used to generate the VOC evaporative and PM<sub>2.5</sub> emission factors. The primary difference between these two header sections is in the selection of the emission types included, using the DATABASE EMISSIONS command and in the selection of the pollutants to be included in the output. In Figure II-1, having the first two flags set to "2" following the DATABASE EMISSIONS command indicates that the startup and running exhaust emission factor components will be included in the output emission factor table. In Figure II-2, the last six flags of the DATABASE EMISSIONS command line are set to "2" to obtain the evaporative emission factor components in the emission factor output file. In Figure II-2, the pollutants SO<sub>2</sub> and NH<sub>3</sub> are eliminated from the PARTICULATES command line, as the emission factors for these pollutants will be reported in the output file resulting from the file shown in Figure II-1.



**Figure II-1. Header Section of MOBILE6.2 Input File Including VOC Exhaust and PM<sub>10</sub> Emission Factors**

```
MOBILE6 INPUT FILE :
> HEADER 01 0012002 - EXHAUST - PM 10.0

REPORT FILE          : Vistas02/Output02/V0100110.TXT REPLACE
DATABASE OUTPUT      :
WITH FIELDNAMES      :
DAILY OUTPUT         :
DATABASE EMISSIONS    : 2211 1111
PARTICULATES         : SO4 OCARBON ECARBON GASPM LEAD SO2 NH3 BRAKE TIRE
AGGREGATED OUTPUT     :
EMISSIONS TABLE      : Vistas02/TB1_02/V0100110.TB1 REPLACE
```

**Figure II-2. Header Section of MOBILE6.2 Input File Including VOC Evaporative and PM<sub>2.5</sub> Emission Factors**

```
MOBILE6 INPUT FILE :
> HEADER 01 0012002 - EVAPORATIVE - PM 2.50

REPORT FILE          : Vistas02/Output02/V0100125.TXT REPLACE
DATABASE OUTPUT      :
WITH FIELDNAMES      :
DAILY OUTPUT         :
DATABASE EMISSIONS    : 1122 2222
POLLUTANTS           : HC
PARTICULATES         : ECARBON SO4 OCARBON GASPM LEAD BRAKE TIRE
AGGREGATED OUTPUT     :
EMISSIONS TABLE      : Vistas02/TB1_02/V0100125.TB1 REPLACE
```

The next section of the MOBILE6 input files is the run data section. This section includes data that applies to all scenarios in the input file. Figure II-3 shows an example of this section for a county using default data. The only commands included in this example tell MOBILE6 that the HC emission factors should be expressed in terms of VOC and that refueling emission factors should be excluded from the output. It should be noted that refueling emissions were calculated using a separate set of input files, but were excluded from the onroad input files here since refueling emissions are included in the area source inventory rather than the onroad inventory. Chapter IV discusses the onroad refueling MOBILE6 input files and emission calculations. Comments in Figure II-3 indicate that this input file is using default registration distributions and diesel sales fractions. For any input files that represent counties for which registration distribution, diesel sales fractions, or trip length distributions have been provided or that have an inspection and maintenance (I/M) program, anti-tampering program (ATP), or low emission vehicle program in place in 2002, additional inputs are required in the run data section of the MOBILE6.2 input file. Figure II-4 shows an example of an input file including all of these data. Some of these data inputs are included directly in the MOBILE6.2 input file, while other data are contained in external text files that are named by the commands in the run data section. For questions regarding the specifics of any of the MOBILE6 input commands listed, the MOBILE6 User's Guide should be consulted.



**Figure II-3. Run Data Section of a MOBILE6.2 Input File**

```
RUN DATA      :
>

EXPRESS HC AS VOC :
NO REFUELING    :

* MOBILE6 Default Registration Distributions Applied
* MOBILE6 Default Diesel Sales Fractions Applied
```

**Figure II-4. Run Data Section of a MOBILE6.2 Input File with Significant Local Inputs**

```
RUN DATA      :
>

EXPRESS HC AS VOC :
NO REFUELING    :

REG DIST       : Vistas02\ExtFiles\R02_ARLI.RDT

* Diesel Sales Fractions Source File -
E:\TrendsM6_New\Vistas02\ExtFiles\D02_ARLI.DSF
DIESEL FRACTIONS :
0.0012 0.0023 0.0026 0.0027 0.0029 0.0015 0.0008 0.0011 0.0001 0.0006
0.0013 0.0015 0.0006 0.0014 0.0006 0.0099 0.0087 0.0446 0.0685 0.0857
0.1922 0.1481 0.1132 0.0959 0.0126
0.0056 0.0221 0.0167 0.0235 0.0126 0.0119 0.0206 0.0136 0.0155 0.0127
0.0246 0.0206 0.0222 0.0184 0.0227 0.0115 0.0310 0.0568 0.0508 0.1211
0.1077 0.2126 0.0711 0.0286 0.0176
0.0056 0.0221 0.0167 0.0235 0.0126 0.0119 0.0206 0.0136 0.0155 0.0127
0.0246 0.0206 0.0222 0.0184 0.0227 0.0115 0.0310 0.0568 0.0508 0.1211
0.1077 0.2126 0.0711 0.0286 0.0176
0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0115 0.0111 0.0145
0.0115 0.0129 0.0096 0.0083 0.0072 0.0082 0.0124 0.0135 0.0169 0.0209
0.0256 0.0013 0.0006 0.0011 0.0001
0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0115 0.0111 0.0145
0.0115 0.0129 0.0096 0.0083 0.0072 0.0082 0.0124 0.0135 0.0169 0.0209
0.0256 0.0013 0.0006 0.0011 0.0001
0.1998 0.1998 0.1998 0.1998 0.1998 0.1998 0.1998 0.2578 0.2515 0.3263
0.2784 0.2963 0.2384 0.2058 0.1756 0.1958 0.2726 0.2743 0.3004 0.2918
0.2859 0.0138 0.0000 0.0000 0.0000
0.6774 0.6774 0.6774 0.6774 0.6774 0.6774 0.6774 0.7715 0.7910 0.8105
0.8068 0.8280 0.8477 0.7940 0.7488 0.7789 0.7842 0.6145 0.5139 0.5032
0.4277 0.0079 0.0000 0.0000 0.0001
0.8606 0.8606 0.8606 0.8606 0.8606 0.8606 0.8606 0.8473 0.8048 0.8331
0.7901 0.7316 0.7275 0.7158 0.5647 0.3178 0.2207 0.1968 0.1570 0.0738
0.0341 0.0414 0.0003 0.0000 0.0000
0.4647 0.4647 0.4647 0.4647 0.4647 0.4647 0.4647 0.4384 0.3670 0.4125
0.3462 0.2771 0.2730 0.2616 0.1543 0.0615 0.0383 0.0333 0.0255 0.0111
0.0049 0.0060 0.0000 0.0000 0.0000
0.6300 0.6300 0.6300 0.6300 0.6300 0.6300 0.6300 0.6078 0.5246 0.5767
```



```

0.5289 0.5788 0.5617 0.4537 0.4216 0.4734 0.4705 0.4525 0.4310 0.3569
0.3690 0.4413 0.3094 0.1679 0.1390
0.8563 0.8563 0.8563 0.8563 0.8563 0.8563 0.8563 0.8443 0.7943 0.8266
0.7972 0.8279 0.8177 0.7440 0.7184 0.7588 0.7567 0.7431 0.7261 0.6602
0.6717 0.7344 0.6107 0.4140 0.3610
0.9992 0.9992 0.9992 0.9992 0.9992 0.9992 0.9992 0.9989 0.9987 0.9989
0.9977 0.9984 0.9982 0.9979 0.9969 0.9978 0.9980 0.9979 0.9976 0.9969
0.9978 0.9982 0.9974 0.9965 0.9964
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000
0.9585 0.9585 0.9585 0.9585 0.9585 0.9585 0.9585 0.8857 0.8525 0.8795
0.9900 0.9105 0.8760 0.7710 0.7502 0.7345 0.6733 0.5155 0.3845 0.3238
0.3260 0.2639 0.0594 0.0460 0.0291

```

```

> ANTI-TAMP PROG      : E:\TrendsM6_New\Vistas02\ExtFiles\VA_ATP2002.ATP
ANTI-TAMP PROG      :
89 68 50 22222 21111111 1 12 098. 22112222

```

```

> Exhaust I/M - IDLE test program #1
I/M PROGRAM          : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS      : 1 1968 1980
I/M VEHICLES         : 1 22222 21111111 1
I/M STRINGENCY       : 1 35.0
I/M COMPLIANCE       : 1 98.0
I/M WAIVER RATES     : 1 2.0 2.0

```

```

> Exhaust I/M - ASM final program #2
I/M PROGRAM          : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS      : 2 1981 2050
I/M VEHICLES         : 2 22222 11111111 1
I/M STRINGENCY       : 2 35.0
I/M COMPLIANCE       : 2 98.0
I/M WAIVER RATES     : 2 2.0 2.0
I/M EFFECTIVENESS    : 0.94 0.94 0.94

```

```

> Exhaust I/M - IDLE test program #1
I/M PROGRAM          : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS      : 3 1981 2050
I/M VEHICLES         : 3 11111 21111111 1
I/M STRINGENCY       : 3 35.0
I/M COMPLIANCE       : 3 98.0
I/M WAIVER RATES     : 3 2.0 2.0

```

```

> Evap I/M - Gas Cap test program #3
I/M PROGRAM          : 4 1998 2050 2 TRC GC
I/M MODEL YEARS      : 4 1973 2050
I/M VEHICLES         : 4 22222 21111111 1
I/M COMPLIANCE       : 4 98.0
I/M WAIVER RATES     : 4 2.0 2.0

```

```

94+ LDG IMP          : Vistas02\ExtFiles\NLEVNE.D

```

```

> WeekDay Trip Length Distribution
WE DA TRI LEN DI    : Vistas02\ExtFiles\WeekTLD2.wdt

```



The third and final section of the MOBILE6.2 input files contains the scenario data. For this VISTAS inventory, each speed and road type combination or speed distribution were modeled in twelve consecutive scenarios representing the temperature and fuel properties applicable in each month. Thus, if a State agency supplied an average speed/road type combination for each of the 12 HPMS road categories, the corresponding MOBILE6.2 input file would have 144 scenarios. The first scenario would represent January temperature and fuel conditions at the speed and MOBILE6 roadway type for the first speed/roadway type provided (typically rural interstates). This would be followed by the February scenario modeled for the same speed and roadway type, and so on through the twelfth scenario representing December conditions for the same speed and roadway type combination.

Figure II-5 illustrates a sample scenario from one of the VISTAS MOBILE6.2 input files. This is the first scenario in the file—therefore, it represents January temperature and fuel conditions. The month of a given scenario in the VISTAS MOBILE6.2 input files can be determined by the last two digits of the SCENARIO RECORD command line. In this case, the last two digits are “01” indicating January. It should be noted that the only options for the EVALUATION MONTH command are “1” indicating January or “7” indicating July. For the VISTAS input files, the EVALUATION MONTH was set to “1” for all months from January through June and to 7 for months from July through December. When this flag is set to “1”, it indicates that MOBILE6 will use a January registration distribution. When the flag is set to “7”, MOBILE6 ages the registration by a half year, applying a half year of fleet turnover to the distribution. The EVALUATION MONTH setting can also affect the reductions from reformulated gas programs. However, by including the SEASON command, as shown in Figure II-5, the EVALUATION MONTH flag setting will not affect reformulated gasoline reductions. With the SEASON flag set to “2”, winter reformulated gasoline rules will be applied in areas with a reformulated gas program modeled (using the FUEL PROGRAM command). Summer reformulated gas rules and reductions will be applied when the SEASON flag is set to “1” if reformulated gas has been modeled. In all of the VISTAS input files, the SEASON flag was included for all areas, whether or not a reformulated gasoline program was modeled. This flag has no effect when the FUEL PROGRAM command is not used. The SEASON flag was set to “1” for the months of May through September and to “2” for the remaining months.

**Figure II-5. Sample Scenario for a Typical MOBILE6.2 Input File**

```
SCENARIO RECORD      : 010010215.0_M01
>FV FILE:           SCENARIO: 1
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 1
MIN/MAX TEMPERATURE: 38.0 60.0
ALTITUDE            : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
SEASON              : 2
AVERAGE SPEED      : 15.0 Arterial
FUEL RVP            : 12.5
PARTICLE SIZE       : 10.0
DIESEL SULFUR       : 500.0
```



Local speed data were provided by the agencies in Georgia, Kentucky, North Carolina, Tennessee, and Virginia. A set of 12 monthly scenarios was developed for each speed input for these States, with one exception. The Northern Kentucky (Boone County, Campbell County, and Kenton County) and Jefferson County, Kentucky inputs were speed distribution files, rather than average speeds by individual roadway types (one for Northern Kentucky and one for Jefferson County, Kentucky). In this case, only 12 scenarios were modeled in total in the Jefferson County and Northern Kentucky input files, with the Jefferson County or Northern Kentucky speed distribution referenced in each scenario, respectively. No speed information was provided for Alabama, Florida, Mississippi, South Carolina, or West Virginia. The average speeds modeled in these files were the default speeds used in the NEI. These speeds are shown in Table II-5 and vary by both roadway type and vehicle category. It should be noted that several agencies provided speed information for ramps. Since the VMT data file is organized by SCC and no SCC currently exists for ramp VMT, the ramp speed information could not be used directly. In some cases, the fraction of VMT occurring on ramps was provided. In these cases, this information was combined with the freeway speeds, following the guidance in the MOBILE6 user's guide to determine the overall freeway speed including the ramp speed, at 34.6 mph (the assumed value for ramp speeds in MOBILE6), and the fraction of VMT occurring on the ramps.

**Table II-5. Default Speeds Modeled by Road Type and Vehicle Type (mph)**

| HPMS Road Type                     | Speed (mph) and MOBILE6 Road Type |                   |                   |
|------------------------------------|-----------------------------------|-------------------|-------------------|
|                                    | Light Duty Vehicles               | Light Duty Trucks | Heavy Duty Trucks |
| Rural Interstate                   | 60 Freeway                        | 55 Freeway        | 40 Freeway        |
| Rural Principal Arterial           | 45 Arterial                       | 45 Arterial       | 35 Arterial       |
| Rural Minor Arterial               | 40 Arterial                       | 40 Arterial       | 30 Arterial       |
| Rural Major Collector              | 35 Arterial                       | 35 Arterial       | 25 Arterial       |
| Rural Minor Collector              | 30 Arterial                       | 30 Arterial       | 25 Arterial       |
| Rural Local                        | 30 Arterial                       | 30 Arterial       | 25 Arterial       |
| Urban Interstate                   | 45 Freeway                        | 45 Freeway        | 35 Freeway        |
| Urban Other Freeway and Expressway | 45 Freeway                        | 45 Freeway        | 35 Freeway        |
| Urban Principal Arterial           | 20 Arterial                       | 20 Arterial       | 15 Arterial       |
| Urban Minor Arterial               | 20 Arterial                       | 20 Arterial       | 15 Arterial       |
| Urban Collector                    | 20 Arterial                       | 20 Arterial       | 15 Arterial       |
| Urban Local                        | Local                             | Local             | Local             |

Another optional input included in the scenario section of the MOBILE6 input files is the VMT mix by 16 MOBILE6 vehicle categories. These vehicle categories are based on the 28 MOBILE6 vehicle categories, but with gasoline and diesel vehicles of the same weight class combined together. When no information was provided on VMT mix, the MOBILE6 defaults were used. Local VMT mix information provided by Tennessee, Virginia, and Jefferson County, Kentucky were included in the MOBILE6.2 input files. In some cases, the same VMT mix was applied to all scenarios. In other cases, the VMT mixes were specific to roadway type, so the VMT mix would vary according to the roadway type being represented in the scenario.



## **C. 2002 ONROAD EMISSION INVENTORY CALCULATIONS**

Once the MOBILE6.2 input files were set up and run through the MOBILE6.2 model, onroad emissions were calculated by multiplying the monthly VMT for a given county, roadway type, and vehicle type by the emission factor modeled for the same month, county, vehicle type and roadway type. Because the MOBILE6.2 input files were set up to create output files in the form of database tables, the output is provided by each of the 28 MOBILE6 vehicle types. Thus, the emission factors first were aggregated to the eight vehicle categories included in the VMT files. This was done using the VMT Fraction data provided in each of the MOBILE6 output files. For each of the MOBILE6 vehicle types included in one of the eight vehicle types needed, the VMT fractions were renormalized within that category. These eight vehicle categories are sometimes referred to as the MOBILE5 vehicle categories. For example, the LDGT1 and LDGT2 MOBILE6 vehicle categories are both included in the MOBILE5 LDGT1 category. In this case, the MOBILE6 LDGT1 VMT fraction was divided by the sum of the MOBILE6 LDGT1 and LDGT2 VMT fractions. The same was done with the MOBILE6 LDGT2 VMT fraction, so that the renormalized MOBILE6 LDGT1 and LDGT2 VMT fractions should now sum to 1. Next, these normalized VMT fractions were multiplied by the corresponding MOBILE6 emission factor and all of these weighted emission factors for a given scenario, within a MOBILE5 vehicle category were summed to obtain the weighted emission factors at the MOBILE5 vehicle category level. The VMT fractions included in the MOBILE6 output files are affected by the registration distribution, diesel sales fractions, and VMT mixes supplied in the MOBILE6.2 input files. Areas that used the MOBILE6 defaults for each of these inputs should all have the same VMT fractions, although even in these cases, there are two sets of VMT fractions—one for the months from January through June and another for the months July through December. This occurs due to the aging of the registration distribution caused by the use of the EVALUATION MONTH flag, as discussed above. These emission factors, now at the MOBILE5 vehicle category level, were multiplied by the corresponding VMT values to obtain monthly emissions by county, roadway type, and vehicle category.

## **D. DATA PROVIDED BY STATE AND LOCAL AGENCIES**

The sections above describe some of the data that was supplied by the VISTAS State and local agencies for use in the development of the 2002 onroad emission inventory. Tables II-6 through II-15 summarize the data supplied by each agency in a consistent fashion. These tables primarily list the data that were actually used in this analysis. This section provides additional information on the data supplied by these agencies as well discussing why some of the data supplied could not be used.



**Table II-6. Summary of Onroad Data Provided by Alabama**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b> |
|--------------------------------|--|
| VMT Data                       | 2002 actual daily VMT by county/road type  |
| MOBILE6 Input Files            |  |
| MOBILE5 Input Files            |  |
| VMT Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           | Monthly 2002 temperatures by county        |
| RVP Data                       | March-September RVP values                 |
| Speed Data                     |  |
| Registration Data              |  |
| Fuel Information               |  |
| I/M Program Information        | N/A  |
| Other                          |  |

**Table II-7. Summary of Onroad Data Provided by Florida**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>         |
|--------------------------------|--|
| VMT Data                       | 2002 actual daily VMT by county/road type          |
| MOBILE6 Input Files            |  |
| MOBILE5 Input Files            |  |
| VMT Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           | Supplied counties in each of 3 temperature regions |
| RVP Data                       | Summer RVP values provided                         |
| Speed Data                     |  |
| Registration Data              |  |
| Fuel Information               |  |
| I/M Program Information        | N/A  |
| Other                          |  |



**Table II-8. Summary of Onroad Data Provided by Georgia**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>   |
|--------------------------------|--|
| VTM Data                       | 2002 actual average annual daily VMT by county and functional classification prepared by Georgia DOT   |
| MOBILE6 Input Files            | Provided MOBILE6 sample input files  |
| MOBILE5 Input Files            |  |
| VTM Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           |  |
| RVP Data                       | Provided summer RVP values   |
| Speed Data                     | Provided 2002 statewide speeds by road type (speeds based on VMT-weighted average speeds, from a 2002 loaded highway network for the 13-county Atlanta area) |
| Registration Data              | Provided one MOBILE6 registration distribution for 13-county Atlanta area and one MOBILE6 registration distribution for rest-of-state                        |
| Fuel Information               | Provided information on Georgia gasoline program, applied to 25 counties   |
| I/M Program Information        | Provided I/M inputs for 13-county Atlanta area in MOBILE6 format   |
| Other                          | Provided VMT temporal adjustment factors by month and day of week for each road type (not used in the 01/04 inventory)                                       |



**Table II-9. Summary of Onroad Data Provided by Kentucky**

| <b>Data Element</b>   | <b>Data Supplied by Responsible Agency</b>  |
|---|---|
| VMT Data  | 2002 actual daily VMT by county/road type   |
| MOBILE6 Input Files   | Provided sample MOBILE6 input files for several counties  |
| MOBILE5 Input Files   |   |
| VMT Mix Information   |   |
| Counties by Temperature Region                                    | Provided temperature stations to be used for several counties   |
| Monthly Temperatures  |   |
| RVP Data  | Provided summer RVP for several counties  |
| Speed Data  | Provided average speed by road type for several county groupings  |
| Registration Data   |   |
| Fuel Information  | Verified counties in reformulated gasoline program  |
| I/M Program Information   | I/M program information provided  |
| Other   |   |
| <b>Jefferson County, Kentucky</b>                                 |   |
| <b>Data Element</b>   | <b>Data Supplied by Responsible Agency</b>  |
| VMT Data  | 2002 summer day VMT from TDM by county/road type/vehicle type   |
| MOBILE6 Input Files   | Provided MOBILE6 input files representing the four different vehicle control combinations found in Jefferson County |
| MOBILE5 Input Files   |   |
| VMT Mix Information   | Provided Jefferson County VMT mix in MOBILE6 format   |
| Counties by Temperature Region                                    |   |
| Monthly Temperatures  | Provided 2002 actual monthly temperature data for Louisville area   |
| RVP Data  | Provided summer and winter RVP values   |
| Speed Data  | Provided speed distribution file for Jefferson County   |
| Registration Data   | Provided registration distribution for Jefferson County in MOBILE6 format   |
| Fuel Information  | Reformulated gasoline modeled   |
| I/M Program Information   | I/M program information provided  |
| Other   | Provided absolute humidity data   |
| <b>Boone County, Campbell County, and Kenton County, Kentucky</b> |   |
| <b>Data Element</b>   | <b>Data Supplied by Responsible Agency</b>  |
| VMT Data  | 2002 actual daily VMT by county/road type   |
| MOBILE6 Input Files   |   |
| MOBILE5 Input Files   | Provided MOBILE5 input file for Northern Kentucky counties  |
| VMT Mix Information   |   |
| Counties by Temperature Region                                    |   |
| Monthly Temperatures  |   |
| RVP Data  | Provided summer and winter RVP values   |
| Speed Data  | Provided speed distribution file for Northern Kentucky  |
| Registration Data   | Provided registration distribution for Northern Kentucky in MOBILE6 format—LDGVs and LDGT1s only                    |
| Fuel Information  | Reformulated gasoline modeled   |
| I/M Program Information   | I/M program information extracted from MOBILE5 input file   |
| Other   | Provided Northern Kentucky VMT distributions by facility type and by hour in MOBILE6 format                         |



**Table II-10. Summary of Onroad Data Provided by Mississippi**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>                       |
|--------------------------------|--|
| VMT Data                       | Provided 2002 actual annual VMT by county/road type/vehicle type |
| MOBILE6 Input Files            |  |
| MOBILE5 Input Files            |  |
| VMT Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           | Provided statewide RVP by season                                 |
| RVP Data                       |  |
| Speed Data                     |  |
| Registration Data              |  |
| Fuel Information               |  |
| I/M Program Information        | N/A  |
| Other                          |  |

**Table II-11. Summary of Onroad Data Provided by North Carolina**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>   |
|--------------------------------|--|
| VMT Data                       | 2002 actual daily VMT by county/road type  |
| MOBILE6 Input Files            |  |
| MOBILE5 Input Files            |  |
| VMT Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           | Indicated counties within each of several temperature regions in state                         |
| RVP Data                       |  |
| Speed Data                     | Provided average speed data by road type for several groups of counties and rest-of-state      |
| Registration Data              |  |
| Fuel Information               |  |
| I/M Program Information        | Provided registration data for several groups of counties and rest-of-state based on 2001 data |
| Other                          |  |
|                                | Provided written description of I/M program  |



**Table II-12. Summary of Onroad Data Provided by South Carolina**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b> |
|--------------------------------|--|
| VTM Data                       | 2002 actual annual VMT by county/road type |
| MOBILE6 Input Files            |  |
| MOBILE5 Input Files            |  |
| VTM Mix Information            |  |
| Counties by Temperature Region |  |
| Monthly Temperatures           |  |
| RVP Data                       |  |
| Speed Data                     |  |
| Registration Data              |  |
| Fuel Information               |  |
| I/M Program Information        | N/A  |
| Other                          |  |

**Table II-13. Summary of Onroad Data Provided by Tennessee**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>                         |
|--------------------------------|--|
| VTM Data                       | 2002 actual daily VMT by county/road type                          |
| MOBILE6 Input Files            | Provided MOBILE6 input files for groups of counties covering state |
| MOBILE5 Input Files            |  |
| VTM Mix Information            | Provided VTM mix fractions by road type                            |
| Counties by Temperature Region |  |
| Monthly Temperatures           |  |
| RVP Data                       | Provided summer RVP information                                    |
| Speed Data                     | Provided average speed data by road type for groups of counties    |
| Registration Data              | Provided registration data for most counties                       |
| Fuel Information               |  |
| I/M Program Information        | Provided in MOBILE6 input files                                    |
| Other                          |  |



**Table II-14. Summary of Onroad Data Provided by Virginia**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>   |
|--------------------------------|--|
| VTM Data                       | 1999 actual annual VMT by county/road type/vehicle type                              |
| MOBILE6 Input Files            | Provided MOBILE6 input files for representative counties                             |
| MOBILE5 Input Files            |  |
| VTM Mix Information            |  |
| Counties by Temperature Region | Provided listing of counties within each of several temperature regions              |
| Monthly Temperatures           |  |
| RVP Data                       | Provided summer RVP data   |
| Speed Data                     | Speed data provided for each VMT record  |
| Registration Data              | 2002 county-level registration data provided for nonattainment counties              |
| Fuel Information               | Verified counties in reformulated gasoline program                                   |
| I/M Program Information        | I/M and ATP inputs provided in MOBILE6 formats; verified counties that implement I/M |
| Other                          | LEV program modeled statewide; provided diesel sales fractions                       |

**Table II-15. Summary of Onroad Data Provided by West Virginia**

| <b>Data Element</b>            | <b>Data Supplied by Responsible Agency</b>  |
|--------------------------------|---|
| VTM Data                       | 2002 actual annual VMT by county/road type/vehicle type   |
| MOBILE6 Input Files            | Supplied several sample MOBILE6 input files   |
| MOBILE5 Input Files            |   |
| VTM Mix Information            | VTM data included vehicle type splits   |
| Counties by Temperature Region | Supplied counties in each of 4 temperature regions  |
| Monthly Temperatures           |   |
| RVP Data                       | Supplied summer RVP value statewide   |
| Speed Data                     | Supplied speed data in MOBILE6 input files--speed data determined to be inappropriate for this analysis |
| Registration Data              |   |
| Fuel Information               |   |
| I/M Program Information        | N/A   |
| Other                          |   |



## **1. Temperature**

The default average daily maximum and minimum temperature data for each month used in this analysis was obtained from the National Climatic Data Center. This temperature data was actual 2002 data. It should be noted that a number of agencies provided information on ozone season or summer temperatures. This information could not be used in this analysis, as the ozone season temperature data are based on several years of temperature data and do not represent the average daily minimum and maximum monthly temperatures that were needed for this analysis. Information was provided by Alabama, Kentucky, North Carolina, South Carolina, Virginia, and West Virginia related to monthly temperature. In some cases, this data divided the counties within the State into several temperature regions and listing a city that should be used for obtaining the temperature data. In these cases, a temperature station from the National Climatic Data Center database was selected from the desired city, and this corresponding temperature set was applied to the counties listed by the States. Several of the States provided their own full set of 2002 temperature data either Statewide or by county. These data were included in the analysis, replacing the default temperature data for those States.

## **2. I/M and ATP Programs**

Several agencies provided I/M and ATP inputs in the form of MOBILE5 input files. Pechan converted these inputs to MOBILE6 inputs, following the guidance in the MOBILE6 user's guide. Agencies that provided the data in MOBILE5 format should review the MOBILE6 I/M and ATP inputs carefully to make sure that the conversions fully capture the actual programs as they were implemented in 2002. In addition, from information provided by North Carolina, Tennessee, and Jefferson County, Kentucky, the I/M and ATP programs should only be applied to a portion of the VMT in the corresponding counties. For the North Carolina and Tennessee I/M counties, duplicate MOBILE6.2 input files were created that eliminate the I/M and ATP programs. The VMT from these counties was divided according to the fraction of the VMT subject to I/M and the fraction of the VMT not subject to I/M. These fractions were provided by the corresponding agencies in North Carolina and Tennessee. The VMT data for each I/M county was then divided according to these VMT fractions to obtain one set of VMT for the portion of vehicles subject to I/M and another set for those not subject to I/M. The emission factors from the I/M files were multiplied by the portion of the VMT subject to I/M while the emission factors from the files without the I/M were multiplied by the remaining portion of the VMT. In Jefferson County, Kentucky, a similar procedure was followed. However, in this case, the county also has a significant portion of VMT from vehicles registered in Indiana that are not subject to I/M or that do not have reformulated gasoline. Thus, the Jefferson County VMT was divided into four subsets and four MOBILE6 input files were developed representing the four groups of vehicle types traveling in the county.

## **3. RVP and Fuel Programs**

Default RVP by county and month were obtained from the data used in the 2002 NEI. The NEI fuel data are based on year 2000 fuel survey data for January and July, with data for intermediate months calculated by interpolation. RVP data for July were applied from May through September, the months when Phase II RVP regulations are in effect. For States that supplied



July, summer, or ozone season RVP values, these values were also applied from May through September. If winter RVP values were supplied, these values were applied directly in each of the remaining months. As mentioned above, reformulated gasoline programs were modeled where appropriate. Georgia provided additional fuel inputs to capture the RVP and sulfur content values of its low sulfur gasoline program.

### III. NONROAD METHODS AND DATA

#### A. NONROAD MODEL CATEGORIES

Pechan used EPA's draft NONROAD2002a model to generate 2002 annual emissions for the majority of nonroad engines. To improve the accuracy of these model runs, we asked State/Local/Tribal (S/L/T) contacts to provide seasonal or monthly gasoline Reid Vapor Pressure (RVP) and temperature; appropriate data on reformulated gasoline (RFG), oxygenated fuel and Stage II programs, and diesel fuel sulfur levels. In addition, to improve the activity data inputs, we asked whether S/L/T agencies had collected information on equipment populations or activity (e.g., hours of use or load factors) to use in place of default populations in the NONROAD model. No S/L/T agencies provided activity data to replace the model defaults.

Seasonal average RVP and average, maximum and minimum temperature values were calculated based on the county-level, monthly RVP and temperature data set prepared for onroad mobile sources. Information on RFG programs and oxygenated fuels programs obtained for the onroad mobile sector was also used. In July 2003, Pechan distributed the input values (RVP, percent O<sub>2</sub>, temperature, and Stage II control efficiency) to be used for the draft NONROAD model 2002 inventory for review and comment by the VISTAS S/L/T agencies. Pechan obtained comments from the S/L/T agencies listed in Table III-1.

**Table III-1. Summary of Comments by S/L/T Agencies on NONROAD Model Input Values Distributed in July 2003**

| State       | Comment   |
|-------------|---|
| Alabama     | Provided region specific data to replace the statewide default values for RVP and ambient temperature |
| Georgia     | Changed oxygen weight percent to zero for all counties  |
| Kentucky    | No Stage II programs in Bullitt and Oldham Counties   |
| Tennessee   | Revised RVP value for Davidson County   |
| Mississippi | Revised statewide RVP by season   |
| Virginia    | No Stage II program in Charles City County  |

Additional comments on the August 2003 NONROAD model temperature and RVP inputs were incorporated for consistency with data submitted for the onroad mobile modeling (e.g., North Carolina). In addition, the State of West Virginia provided revised geographic allocation files for certain nonroad categories to improve upon the NONROAD model's default county allocation.

Using the inputs shown in the file "VISTAS NONROAD County Inputs.xls," Pechan prepared seasonal option files for each of four seasons (winter, spring, summer, and autumn), and ran the



NONROAD model at the county level. Model default values were used for all other inputs, with the exception of diesel fuel sulfur. A value of 2,500 parts per million volume (ppmv) was used instead of the default 2,318 ppm, since the default represented a national average including California's lower diesel fuel sulfur level. Pechan summed the seasonal results, and then processed the model output to develop a county-level, SCC-level annual emissions inventory for all pollutants except NH<sub>3</sub>.

The NH<sub>3</sub> emissions for NONROAD model categories were developed using the following procedures. OTAQ recently reviewed the basis of NH<sub>3</sub> data summarized in a report entitled, "A Study of the Potential Impact of Some Unregulated Motor Vehicle Emissions" (Harvey, 1983). In conducting this review, OTAQ performed an analysis of the available light-duty noncatalyst engine data to develop defensible gasoline nonroad emission factors on a mg/gallon basis (Harvey, 2003). For both gasoline noncatalyst and diesel engines, fuel based emission factors were developed from emission factors expressed on a gram/mile basis by accounting for the reported fuel economy of each tested engine. For gasoline non-catalyst engines, this resulted in a value of 115.8 mg/gallon, which is applied to county-level fuel consumption estimates for 2-stroke gasoline, 4-stroke gasoline and liquified petroleum gas (LPG) equipment. From the diesel engine test data, a value of 83.3 mg/gallon was derived, which is applied to diesel fuel consumption estimates. County-level fuel consumption for these engines, expressed in gallons, is an output from EPA's NONROAD model.

## **B. AIRCRAFT, COMMERCIAL MARINE VESSELS AND LOCOMOTIVES**

For 2002 aircraft, commercial marine vessels (CMVs), and locomotives, Pechan used 1999 emission estimates developed for EPA's 1999 NEI Version 2 as base year estimates for the VISTAS region. These categories are not included in the NONROAD model, and are hereafter referred to as "other nonroad." Pechan then incorporated revised S/L/T estimates summarized in Table III-2, using the replacement procedures summarized in Tables III-3a through III-3d. Pechan tracked changes by labeling the default 1999 NEI records as Version 2 (V2) and the revised S/L/T records as Version 3 (V3). In cases where PM<sub>2.5</sub> estimates were not provided, they were developed using the following category-specific fractions applied to the available PM<sub>10</sub> emission estimates: 1) Aircraft: 0.69; 2) Locomotive: 0.90; and 3) CMV: 0.92 (EPA, 2002). Commercial marine adjustments are described in detail in the following section.

**Table III-2. Summary of S/L/T Agency Data Incorporated into the Draft VISTAS 2002 Other Nonroad Inventory**

| <b>State</b> | <b>Description of Inventory</b>  | <b>Pollutants</b>   |
|--------------|--|---|
| Alabama      | 1999 Locomotive emissions for Pickens and Tuscaloosa counties                          | VOC, NO <sub>x</sub> , and CO   |
| Florida      | 2001 Aircraft, Locomotive and Commercial Marine Vessel emissions for Palm Beach County | VOC, NO <sub>x</sub> , CO, PM <sub>10</sub> , and SO <sub>x</sub>         |
| Tennessee    | 1999 Aircraft and Locomotive emissions for Davidson County                             | VOC, NO <sub>x</sub> , CO, SO <sub>x</sub> , and primary PM <sub>10</sub> |
| Virginia     | 1999 Statewide Inventory for Aircraft, Locomotive and Commercial Marine Vessels        | VOC, NO <sub>x</sub> , CO   |



**Table III-3a. Replacement Procedures for 1999 Locomotive Emissions for  
Pickens and Tuscaloosa County, Alabama**

| STATE_<br>FIPS | COUNTY_<br>FIPS | SCC        | Version | Notes                              | START_<br>DATE | END_<br>DATE | VOC    | NOX     | CO     |
|----------------|-----------------|------------|---------|------------------------------------|----------------|--------------|--------|---------|--------|
| 01             | 107             | 2285002005 | V3      |                                    |                |              | 7.73   | 179.7   | 22.81  |
| 01             | 107             | 2285002005 | V2      | Replace VOC, NOx, and CO emissions | 19990101       | 19991231     | 1962.9 | 45643   | 5794.5 |
| 01             | 107             | 2285002010 | V3      |                                    |                |              | 5.39   | 53.48   | 9.47   |
| 01             | 107             | 2285002010 | V2      | Replace VOC, NOx, and CO emissions | 19990101       | 19991231     | 5.39   | 53.48   | 9.48   |
| 01             | 125             | 2285002005 | V3      |                                    |                |              | 16.31  | 379.15  | 48.13  |
| 01             | 125             | 2285002005 | V2      | Replace VOC, NOx, and CO emissions | 19990101       | 19991231     | 3384.9 | 78711.4 | 9992.6 |
| 01             | 125             | 2285002010 | V3      |                                    |                |              | 9.29   | 92.15   | 16.33  |
| 01             | 125             | 2285002010 | V2      | Replace VOC, NOx, and CO emissions | 19990101       | 19991231     | 9.29   | 92.15   | 16.33  |



**Table III-3b. Replacement Procedures for 1999 Aircraft, Locomotive, and Commercial Marine Vessel Emissions for Palm Beach County, Florida**

| STATE_<br>FIPS | COUNTY_<br>FIPS | SCC        | Version | Notes  | START_<br>DATE | END_<br>DATE | VOC    | NOX    | CO       | SO <sub>2</sub> | PM10-<br>PRI | PM25-<br>PRI |
|----------------|-----------------|------------|---------|--|----------------|--------------|--------|--------|----------|-----------------|--------------|--------------|
| 12             | 099             | 2275000000 | V3      | Apply a Growth Factor to 2001 state-supplied aircraft emissions to backcast to 1999<br>Estimate PM2.5-PRI off PM10-PRI   | 19990101       | 19991231     | 470.39 | 805.94 | 4,121.41 | 1.98            | 0.00         |              |
| 12             | 099             | 2275001000 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 0.44   | 0.05   | 9.03     | 0               | 0.19         | 0.13         |
| 12             | 099             | 2275020000 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 79.1   | 275.5  | 330.6    | 26.34           |              |              |
| 12             | 099             | 2275050000 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 13.93  | 2.37   | 437.43   | 0.36            | 8.62         | 5.95         |
| 12             | 099             | 2275060000 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 9.23   | 1.19   | 212.32   | 0.11            | 4.55         | 3.14         |
| 12             | 099             | 2280000000 | V3      | Apply a Growth Factor to 2001 state-supplied cmv emissions to backcast to 1999<br>Estimate PM2.5-PRI off PM10-PRI        | 19990101       | 19991231     | 10.42  | 115.60 | 0.97     | 9.94            | 33.91        |              |
| 12             | 099             | 2280002100 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 25.5   | 815.4  | 107.51   | 36.95           | 34.3         | 31.55        |
| 12             | 099             | 2280002200 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 0.22   | 7.05   | 0.93     | 0.32            | 0.3          | 0.27         |
| 12             | 099             | 2280003100 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 6.8    | 217.5  | 28.63    | 115.6           | 9.48         | 8.73         |
| 12             | 099             | 2280003200 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 0.06   | 1.93   | 0.25     | 1.43            | 0.11         | 0.1          |
| 12             | 099             | 2285002000 | V3      | Apply a Growth Factor to 2001 state-supplied locomotive emissions to backcast to 1999<br>Estimate PM2.5-PRI off PM10-PRI | 19990101       | 19991231     | 28.19  | 658.78 | 83.64    | 48.09           | 15.50        |              |
| 12             | 099             | 2285002006 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 6.11   | 164.1  | 16.17    | 10.26           | 4.07         | 3.66         |
| 12             | 099             | 2285002008 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 0.45   | 12.15  | 1.2      | 0.76            | 0.3          | 0.27         |
| 12             | 099             | 2285002009 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 6.78   | 182.2  | 17.95    | 11.39           | 4.52         | 4.07         |
| 12             | 099             | 2285002010 | V2      | Delete all records for this SCC  | 19990101       | 19991231     | 3.75   | 64.36  | 6.77     | 3               | 1.64         | 1.47         |

<sup>1</sup> Palm Beach County provided emission estimates corresponding to 2001; as such, 2001 emission estimates were backcast to 1999 using growth factors presented in this report before incorporation.



**Table III-3c. Replacement Procedures for 1999 Aircraft and Locomotive Emissions for Davidson County, Tennessee**

| STATE_<br>FIPS | COUNTY_<br>FIPS | SCC        | Version | Notes                           | START_<br>DATE | END_<br>DATE | VOC     | NOX     | CO     | SO2   | PM10-<br>PRI | PM25-<br>PRI |
|----------------|-----------------|------------|---------|---------------------------------|----------------|--------------|---------|---------|--------|-------|--------------|--------------|
| 47             | 037             | 2275000000 | V3      | Estimate PM2.5-PRI off PM10-PRI | 19990101       | 19991231     | 232.125 | 634.35  | 1766   | 32.13 | 39.25        |              |
| 47             | 037             | 2275001000 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 1.7     | 0.2     | 35     | 0.02  | 0.75         | 0.52         |
| 47             | 037             | 2275020000 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 187.45  | 649.92  | 782.93 | 62.34 |              |              |
| 47             | 037             | 2275050000 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 4.72    | 0.8     | 148.3  | 0.12  | 2.92         | 2.02         |
| 47             | 037             | 2275060000 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 15.22   | 1.97    | 349.97 | 0.19  | 7.51         | 5.18         |
| 47             | 037             | 2285002000 | V3      | Estimate PM2.5-PRI off PM10-PRI | 19990101       | 19991231     | 20.803  | 363.117 | 50.701 | 26.36 | 8.893        |              |
| 47             | 037             | 2285002006 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 31.91   | 857.26  | 84.46  | 53.6  | 21.27        | 19.15        |
| 47             | 037             | 2285002010 | V2      | Delete all records for this SCC | 19990101       | 19991231     | 19.6    | 336.23  | 35.39  | 15.68 | 8.54         | 7.69         |



**Table III-3d. Replacement Procedures for 1999 Aircraft, Locomotive, and Commercial Marine Vessel Emissions for Sample Counties in Virginia**

| STATE_FIPS | COUNTY_FIPS | SCC        | Version | Notes   | START_DATE | END_DATE | VOC     | NOX    | CO     | SO2  | PM10-PRI | PM25-PRI |
|------------|-------------|------------|---------|---|------------|----------|---------|--------|--------|------|----------|----------|
| 51         | 001         | 2275001000 | V3      |   | 19990101   | 19991231 | 3.47    | 0.78   | 3.74   |      |          |          |
| 51         | 001         | 2275001000 | V2      | Replace VOC, NOx, and CO emissions<br>Keep SO2, PM10-PRI, and PM2.5-PRI emissions   | 19990101   | 19991231 | 0.31    | 0.04   | 6.38   | 0    | 0.14     | 0.09     |
| 51         | 013         | 2275020000 | V3      |   | 19990101   | 19991231 | 145.821 | 992.23 | 1634.2 |      |          |          |
| 51         | 013         | 2275020000 | V2      | Replace VOC, NOx, and CO emissions<br>Keep SO2 emissions  | 19990101   | 19991231 | 271.17  | 940.36 | 1132.7 | 90.2 |          |          |
| 51         | 001         | 2275050000 | V3      |   | 19990101   | 19991231 | 1.25    | 0.21   | 39.34  |      |          |          |
| 51         | 001         | 2275050000 | V2      | Replace VOC, NOx, and CO emissions<br>Keep SO2, PM10-PRI, and PM2.5-PRI emissions   | 19990101   | 19991231 | 0.25    | 0.04   | 7.81   | 0.01 | 0.15     | 0.11     |
| 51         | 001         | 2275060000 | V3      |   | 19990101   | 19991231 | 0.05    | 0.01   | 1.26   |      |          |          |
| 51         | 001         | 2275060000 | V2      | Replace VOC, NOx, and CO emissions<br>Keep SO2, PM10-PRI, and PM2.5-PRI emissions   | 19990101   | 19991231 | 1.47    | 0.19   | 33.8   | 0.02 | 0.72     | 0.5      |
| 51         | 670         | 2280002000 | V3      | Add SCC to the Inventory  | 19990101   | 19991231 | 3.3     | 18.16  | 6.94   |      |          |          |
| 51         | 670         | 2280002100 | V2      | Sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2280002100 and 2280002200 and add to SCC 280002000. After that, delete all records for SCC 2280002100 and 2280002200               | 19990101   | 19991231 | 10.12   | 323.52 | 42.66  | 14.7 | 13.61    | 12.52    |
| 51         | 670         | 2280002200 | V2      | Sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2280002100 and 2280002200 and add to SCC 2280002000. After that, delete all records for SCC 2280002100 and 2280002200              | 19990101   | 19991231 | 0.17    | 5.39   | 0.71   | 0.24 | 0.23     | 0.21     |
| 51         | 670         | 2280003000 | V3      | Add SCC to the Inventory  | 19990101   | 19991231 | 0.14    | 1.64   | 0      |      |          |          |
| 51         | 670         | 2280003100 | V2      | Sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2280003100 and 2280003200 and add to SCC 2280003000. After that, delete all records for SCC 2280003100 and 2280003200              | 19990101   | 19991231 | 2.7     | 86.31  | 11.36  | 45.9 | 3.76     | 3.46     |
| 51         | 670         | 2280003200 | V2      | Sum up SO2, PM10, and PM2.5 Emissions for SCCs 2280003100 and 2280003200 and add to SCC 2280003000. After that, delete all records for SCC 2280003100 and 2280003200                      | 19990101   | 19991231 | 0.05    | 1.48   | 0.19   | 1.09 | 0.08     | 0.08     |
| 51         | 199         | 2283002000 | V3      |   | 19990101   | 19991231 | 8.46    | 53.47  | 15.51  |      |          |          |
| 51         | 199         | 2283002000 | V2      | Replace VOC, NOx, and CO emissions  | 19990101   | 19991231 | 7.43    | 47.26  | 13.63  |      |          |          |
| 51         | 740         | 2285002005 | V3      | Add SCC to the Inventory  | 19990101   | 19991231 | 3.76    | 100.99 | 9.95   |      |          |          |
| 51         | 740         | 2285002006 | V2      | Sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2285002006 and 2285002007 and add to SCC 285002005. After that, delete all records for SCC 2285002006 and 2285002007. <sup>1</sup> | 19990101   | 19991231 | 0.7     | 18.77  | 1.85   | 1.17 | 0.47     | 0.42     |
| 51         | 740         | 2285002007 | V2      | Sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2285002006 and 2285002007 and add to SCC 285002005. After that, delete all records for SCC 2285002006 and 2285002007. <sup>1</sup> | 19990101   | 19991231 | 0.08    | 2.26   | 0.22   | 0.14 | 0.06     | 0.05     |
| 51         | 036         | 2285002010 | V3      |   | 19990101   | 19991231 | 0.59    | 10.13  | 1.06   |      |          |          |
| 51         | 036         | 2285002010 | V2      | Replace VOC, NOx, and CO emissions<br>Keep SO2, PM10-PRI, and PM2.5-PRI emissions   | 19990101   | 19991231 | 1.99    | 34.15  | 3.59   | 1.59 | 0.87     | 0.78     |

<sup>1</sup> Other counties may also have emissions for SCCs 2285002008 and 2285002009. In these cases, sum up SO2, PM10-PRI, and PM2.5-PRI emissions for SCCs 2285002006, 2285002007, 2285002008, and 2285002009 and add to SCC 2285002005. After that, delete all records for SCC 2285002006, 2285002007, 2285002008, and 2285002009.



## 2. CMV Improvements

This section describes procedures for improving the spatial distribution of CMV emission estimates for the VISTAS region. States that share borders with non-VISTAS States along the Mississippi and Ohio Rivers have expressed concern about the representativeness of port emission estimates at a county-level. Revising the county-level emissions estimates would allow more accurate modeling of emissions in the VISTAS States.

Ideally, CMV emission estimates would be developed using local activity data that account for vessel type, engine type and mode of operation (cruise, maneuvering, and hotelling). Creating this type of “bottom-up” emission inventory requires a large amount of effort. Therefore, Pechan utilized port-specific emission estimates developed for the 1999 NEI, distributed using a revised allocation methodology, which incorporates information on the number of port facilities in each county.

### *a. Current Allocation Method*

The current 2002 VISTAS commercial marine inventory is based on EPA’s 1999 NEI Version 2.0, projected to 2002 using appropriate growth factors. State-supplied data were incorporated by EPA or by Pechan for some VISTAS States for this category, including Alabama, Virginia, West Virginia, and Palm Beach County, Florida.

The 1999 NEI estimated emissions for these categories according to the following SCCs:

| SCC        | Descriptor 1   | Descriptor 3               | Descriptor 6 | Descriptor 8       |
|------------|----------------|----------------------------|--------------|--------------------|
| 2280002100 | Mobile Sources | Marine Vessels, Commercial | Diesel       | Port emissions     |
| 2280002200 | Mobile Sources | Marine Vessels, Commercial | Diesel       | Underway emissions |
| 2280003100 | Mobile Sources | Marine Vessels, Commercial | Residual     | Port emissions     |
| 2280003200 | Mobile Sources | Marine Vessels, Commercial | Residual     | Underway emissions |

For the 1999 NEI, commercial marine diesel emissions were developed by obtaining 2000 emission estimates for all pollutants except SO<sub>2</sub> from OTAQ’s marine diesel regulatory background documentation (*Draft Regulatory Impact Analysis - Control of Emissions from Compression-Ignition Marine Engines*). To estimate emissions for 1999, 2000 estimates were backcast using growth factors obtained from the draft RIA cited above. Steam-powered residual CMV emission estimates were developed by obtaining fuel usage data from OTAQ and applying fuel-based emission factors (EPA, 1989). A similar method was used for diesel SO<sub>2</sub> emissions. National diesel usage was estimated assuming a sulfur content of 0.25 percent and EPA emission factors (EPA, 2002).

National diesel emissions were disaggregated into port and underway emissions estimates based on the assumption that 75 percent of distillate fuel is consumed within the port, while the remaining fuel is consumed while underway, consistent with EPA guidance. National residual emissions were disaggregated into port and underway emissions estimates based on the assumption that 25 percent of residual fuel is consumed within the port, while the remaining fuel is consumed while underway (EPA, 1989).



To allocate to counties, port emissions were assigned to the 150 largest U.S. ports based on activity obtained from the U.S. Army Corps of Engineers (USACE). The percentage of total traffic for each port was calculated by dividing the port-level traffic by the total traffic. Emissions for each port were then assigned to a single county.

Underway emissions are assigned to counties based on a county's shipping lane traffic. The Bureau of Transportation Statistics' (BTS) *National Transportation Atlas Databases-1999* contains data on the thousand tons per mile traveled for each shipping lane link in the United States (BTS-CD26). Where navigable rivers form a county or State boundary, the shipping lane traffic is proportioned to individual counties based on the length of shoreline that is shared. For example, if two counties share a navigable river, and both counties have the same length of shoreline, the shipping traffic is split evenly between the two counties. Shipping lanes that are not within counties, for example in the ocean, are associated to States based on BTS assignments. These waterway weights are then evenly distributed among the counties within these States that have navigable waterways. All shipping activity is summed at the county-level and compared with national shipping activity to determine what portion of activity can be attributed to individual counties. These proportions were used in disaggregating the national CMV emission estimates to the county level.

#### ***b. Revised Port Allocation Method***

Figures III-1 and III-2 present emission maps for CMV port and underway NO<sub>x</sub> emissions created from the 1999 NEI Version 2.0 data. For underway emissions, Pechan believes that the allocation procedure results in a reasonable distribution of county-level emissions. However, the methodology to allocate port emissions results in all the emissions being assigned to a single county. For example, Cabell County in West Virginia is assigned all emissions for Huntington Port, but no emissions are allocated to Lawrence County in Ohio, the county on the opposite river bank.

Port areas encompass multiple States and counties and in some cases, multiple waterways. Therefore, the emissions allocation process must incorporate all counties in the vicinity of the port where activity is occurring. This is especially true for inland rivers where activity takes place on both riverbanks and for 10 river miles or more outside the port city. The revised methodology allocates port emissions based on a surrogate for port-related activity in each county, rather than using a single county to define the port.



Figure III-1. VISTAS Region and Surrounding States, Underway NO<sub>x</sub> Emissions

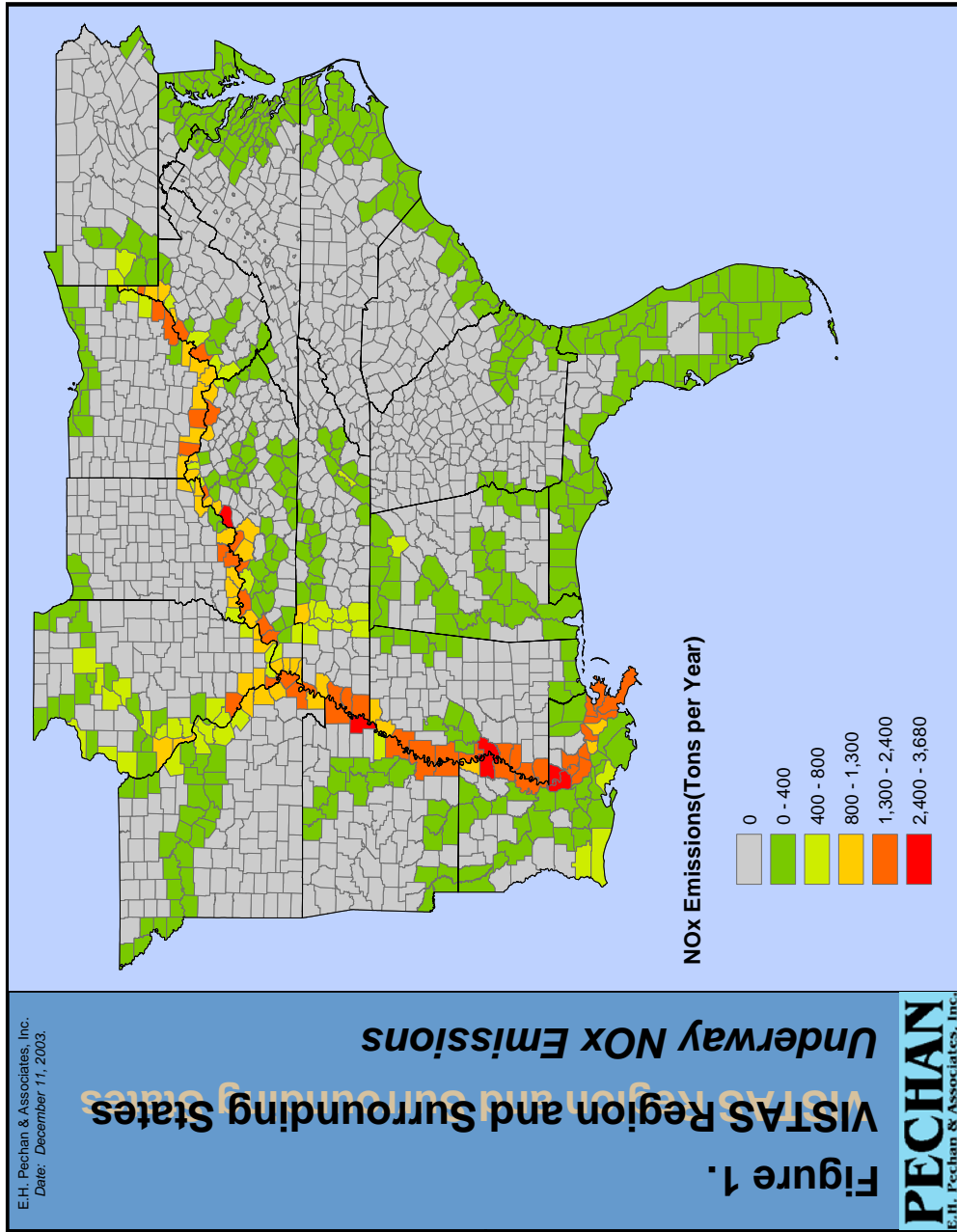
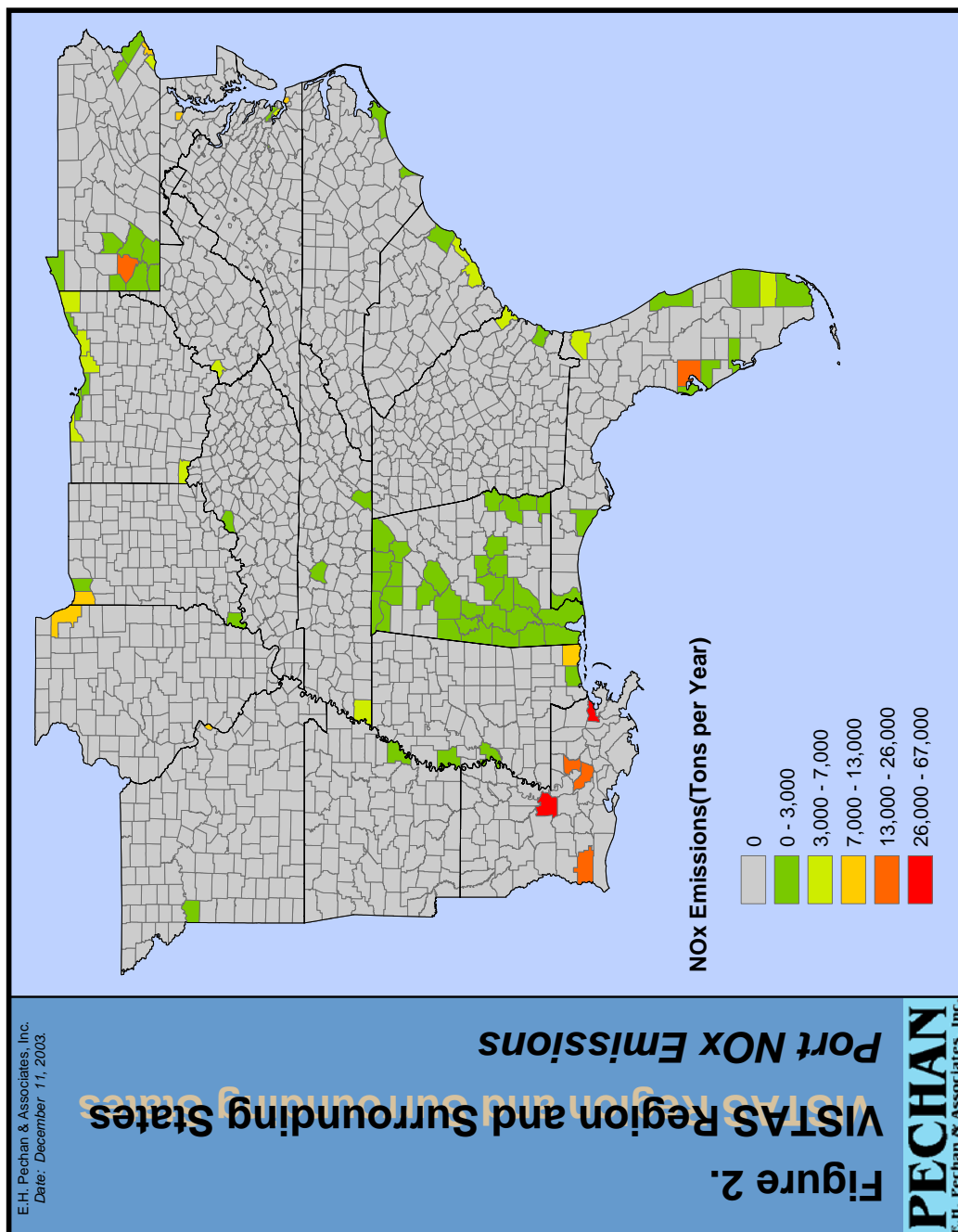




Figure III-2. VISTAS Region and Surrounding States, Port NO<sub>x</sub> Emissions





The report, *Waterborne Commerce of the United States, Calendar Year 1999* (USACE, 2000), hereafter referred to as *Waterborne Commerce*, presents the cargo tonnage and number of vessel trips in major waterways of the United States. The report defines port areas, which USACE uses to develop the Top 150 Ports in the United States by amount of cargo tonnage. As discussed in the previous section, the 1999 NEI allocates all the port emissions to these 150 ports based on the cargo tonnage handled by the port.

Pechan uses this allocation of emissions to each port area as the starting point of its revised allocation process. Table III-4 presents the ports that are located in VISTAS and adjoining States, which are part of the Top 150 Ports.

**Table III-4. Port Areas Located in VISTAS and Adjoining States**

| Port            | State | Port           | State |
|-----------------|-------|----------------|-------|
| Mobile          | AL    | Pascagoula     | MS    |
| Guntersville    | AL    | Vicksburg      | MS    |
| Helena          | AR    | Biloxi         | MS    |
| Port Everglades | FL    | Greenville     | MS    |
| Jacksonville    | FL    | Gulfport       | MS    |
| Miami           | FL    | Wilmington     | NC    |
| Port Canaveral  | FL    | Morehead City  | NC    |
| Palm Beach      | FL    | Cincinnati     | OH    |
| Panama City     | FL    | Pittsburgh     | PA    |
| Pensacola       | FL    | Charleston     | SC    |
| Tampa           | FL    | Georgetown     | SC    |
| Port Manatee    | FL    | Memphis        | TN    |
| Weedon Island   | FL    | Nashville      | TN    |
| Savannah        | GA    | Chattanooga    | TN    |
| Brunswick       | GA    | Norfolk Harbor | VA    |
| Mount Vernon    | IN    | Newport News   | VA    |
| Louisville      | KY    | Hopewell       | VA    |
| New Orleans     | LA    | Huntington     | WV    |
| Baton Rouge     | LA    |                |       |

The next step was to develop a list of counties that make up the port area. Port area definitions were obtained from *Waterborne Commerce*. Table III-6 presents the port definitions for the VISTAS States and adjoining States. Using the port definitions by river mile, Pechan established which counties are included in each port area. In many cases, these port areas encompass multiple counties. For example, Pittsburgh is defined in *Waterborne Commerce* as:

Ohio River from Pittsburgh, PA to mile 40 (Pennsylvania/Ohio State Line);  
Allegheny River from Pittsburgh, PA to mile 72 (to head of project);  
Monongahela River from Pittsburgh, PA to mile 91 (to head of project).



Therefore, the Port of Pittsburgh includes the following counties in Pennsylvania; Allegheny, Westmoreland, Armstrong, Washington, Fayette, Greene, Beaver. This process was repeated for all the port areas listed in Table III-4.

The next step in allocating emissions is to develop a surrogate for the amount of CMV activity in each county of the port area. Pechan assumed that the activity of vessels in each county is related to the number of port facilities operating in a given county. Port facilities include terminals, piers, wharves, and docks that are involved in all types of commercial activity and support services. Pechan obtained the number of port facilities in each county from *The Port Series Reports* (USACE, 2003). The USACE periodically surveys the commercial marine industry to obtain information on port facilities and publishes it in *The Port Series Reports*. The reports give the name, location, operations, and describe the physical and inter-modal characteristics of the facilities. The data includes the location of the facility by river mile, State, and county.

For each port area, Pechan calculated the ratio between the number of port facilities in each county to the total number of facilities in all counties that make up the port area. This ratio was used to allocate emissions for each port area to the county-level. Table III-5 presents the allocation ratios for each county in the port areas. Some port areas were still encompassed by one county using the definition of the port from *Waterborne Commerce*. However, a number of port areas include multiple counties. Note that New Orleans and Pittsburgh do not include any counties in VISTAS States.

**Table III-5. List of VISTAS Ports and Ports of Adjoining States**

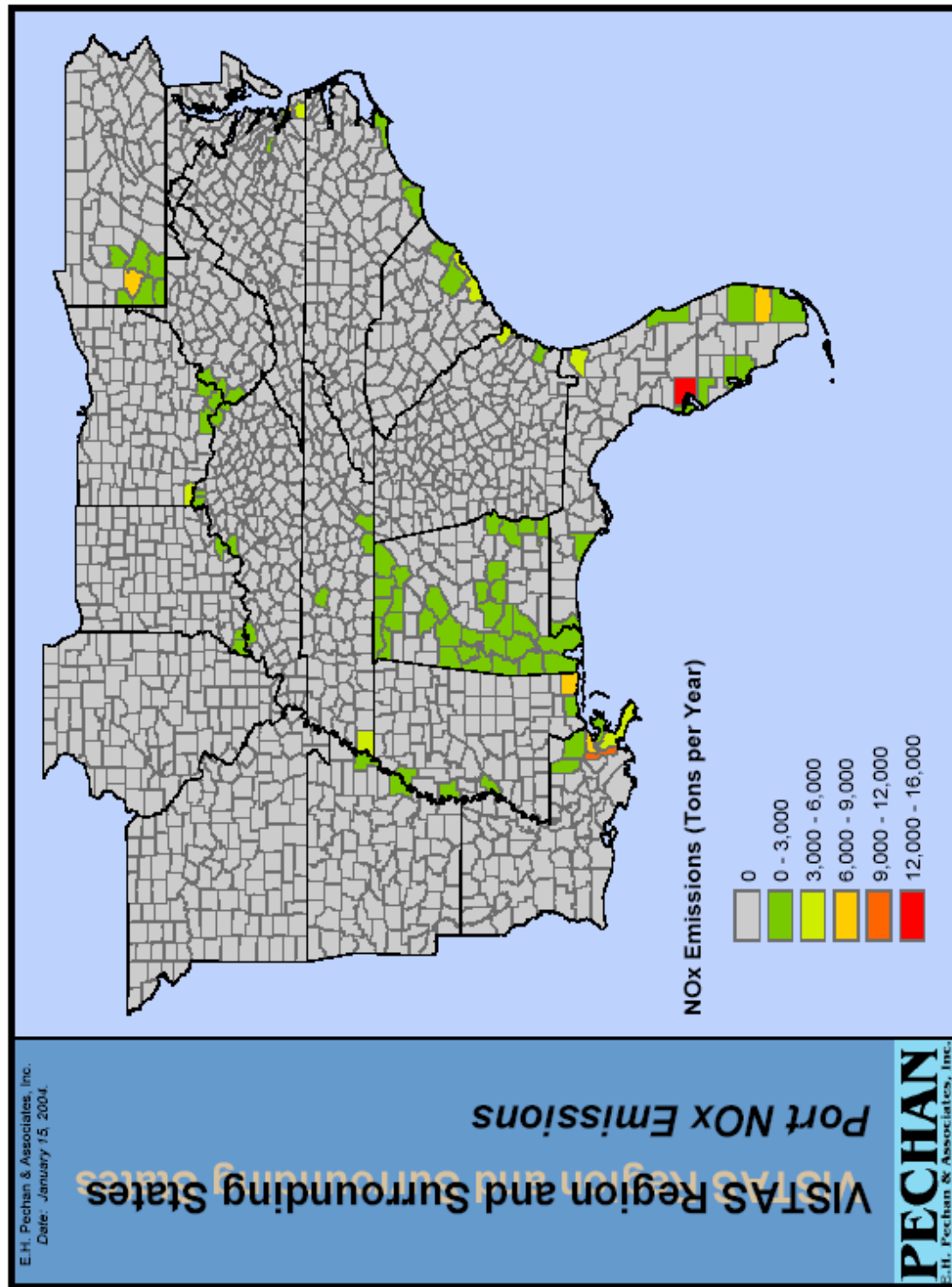
| Port            | State | County      | Ratio | Port         | State | County      | Ratio  | Port         | State | County          | Ratio  |
|-----------------|-------|-------------|-------|--------------|-------|-------------|--------|--------------|-------|-----------------|--------|
| Port Everglades | FL    | Broward     | 1.0   | Helena       | AR    | Phillips    | 0.7778 | Chattanooga  | TN    | Hamilton        | 0.7692 |
| Jacksonville    | FL    | Duval       | 1.0   |              | MS    | Coahoma     | 0.2222 |              | TN    | Marion          | 0.2308 |
| Miami           | FL    | Miami-Dade  | 1.0   |              | FL    | Charlotte   | 0.7500 |              | VA    | Norfolk City    | 0.5568 |
| Port Canaveral  | FL    | Brevard     | 1.0   | Charlotte    | FL    | Lee         | 0.2500 | Norfolk      | VA    | Chesapeake City | 0.3068 |
| Palm Beach      | FL    | Palm Beach  | 1.0   |              |       |             |        |              | VA    | Portsmouth      | 0.1364 |
| Panama City     | FL    | Bay         | 1.0   | Mount Vernon | IN    | Vanderburgh | 0.3182 | Newport News | VA    | Newport News    | 0.6500 |
| Pensacola       | FL    | Escambia    | 1.0   |              | IN    | Posey       | 0.4773 |              | VA    | Hampton         | 0.3500 |
| Tampa           | FL    | Hillborough | 1.0   |              | KY    | Henderson   | 0.2045 | Hopewell     | VA    | Hopewell        | 0.5000 |
| Port Manatee    | FL    | Manatee     | 1.0   | Louisville   | IN    | Jefferson   | 0.6596 |              | VA    | Charles City    | 0.5000 |
| Weedon Island   | FL    | Pinellas    | 1.0   |              | IN    | Clark       | 0.3404 |              | PA    | Allegheny       | 0.5206 |
| Savannah        | GA    | Chatham     | 1.0   |              | LA    | St. Bernard | 0.0858 |              | PA    | Westmoreland    | 0.0412 |
| Brunswick       | GA    | Glynn       | 1.0   |              | LA    | Plaquemines | 0.1231 |              | PA    | Armstrong       | 0.0309 |
| Pascagoula      | MS    | Jackson     | 1.0   |              | LA    | Orleans     | 0.3284 | Pittsburgh   | PA    | Washington      | 0.1340 |
| Vicksburg       | MS    | Warren      | 1.0   |              | LA    | Jefferson   | 0.4366 |              | PA    | Fayette         | 0.0412 |
| Biloxi          | MS    | Harrison    | 1.0   |              | LA    | St. Tammany | 0.0224 |              | PA    | Greene          | 0.0567 |
| Greenville      | MS    | Washington  | 1.0   |              | LA    | Tangipahoa  | 0.0037 |              | PA    | Beaver          | 0.1753 |
| Gulfport        | MS    | Harrison    | 1.0   | Wilmington   | NC    | New Hanover | 0.8974 |              | PA    | Greenup         | 0.0795 |
| Morehead City   | NC    | Carteret    | 1.0   |              | NC    | Brunswick   | 0.1026 |              | KY    | Boyd            | 0.1023 |
| Georgetown      | SC    | Georgetown  | 1.0   |              | OH    | Hamilton    | 0.7931 |              | KY    | Gallia          | 0.1136 |
| Nashville       | TN    | Davidson    | 1.0   | Cincinnati   | KY    | Kenton      | 0.0862 |              | OH    | Gallia          | 0.1136 |
| Mobile          | AL    | Mobile      | 1.0   |              | KY    | Boone       | 0.1207 | Huntington   | OH    | Lawrence        | 0.2273 |
| Guntersville    | AL    | Marshall    | 1.0   | Charleston   | SC    | Charleston  | 0.7097 |              | OH    | Scioto          | 0.1364 |
|                 |       |             |       |              | SC    | Berkeley    | 0.2903 |              | WV    | Wayne           | 0.1136 |
|                 |       |             |       | Memphis      | TN    | Shelby      | 0.9123 |              | WV    | Cabell          | 0.0795 |
|                 |       |             |       |              | AR    | Crittenden  | 0.0877 |              | WV    | Mason           | 0.1477 |



Pechan was directed to perform the reallocation for all VISTAS ports. Figure III-3 presents the reallocation of port emissions in all States except Alabama. Alabama's CMV data were provided to EPA and already incorporated into the 1999 NEI Version 2, and Pechan did not have access to the default 1999 NEI estimates for this State and category. Since State data take precedence, the inventory prepared by Pechan reflects the incorporation of State data for those areas that developed independent CMV emission estimates, including Virginia and Palm Beach County, Florida. In addition, West Virginia provided their own county fractions to allocate emissions for the Port of Huntington, using District-level data from the Army Corps of Engineers on tonnage of freight shipped and received. West Virginia also requested that residual-fueled CMV activity/emissions be zeroed out for their State. States providing their own data are encouraged to review the allocations Pechan developed for their port areas, and to provide further comment or direction as needed.



Figure III-3. VISTAS Region and Surrounding States, Revised Port Emissions of NO<sub>x</sub>





**Table III-6. Definition of Port Areas Obtained from Waterborne Commerce  
(USACE, 2000)**

|  |
|--|
| <b>VISTAS PORTS</b>  |
| <i>MOBILE, AL</i><br>Entrance. bay and river channels, and channels into Chickasaw and Three Mile Creeks; Branch Channels; Theodore Ship Channel.  |
| <i>GUNTERSVILLE, AL</i><br>Both banks of the Tennessee River at mile 358 to mile 363.  |
| <i>JACKSONVILLE HARBOR, FL</i><br>Atlantic Ocean to the Florida East Coast Railway Bridge at Jacksonville, 26.8 miles.   |
| <i>TAMPA, FL</i><br>Gulf of Mexico to and including the channels of upper Tampa Harbor, 49.8 miles; Channel to Port Tampa and thence to Courtney Campbell Parkway, 17.5 miles; Natural channel leading from Port Tampa Channel toward St. Petersburg, 1.8 miles; Alafia River Channel, 3.6 miles; Hillsborough River to City Waterworks Dam, 10 miles; Channels in "Little Manatee River, FL; Port Manatee, FL Harbor."  |
| <i>MIAMI HARBOR, FL</i><br>Atlantic Ocean to inner end of turning basin at Miami, 6 miles; Meloy Channel and thence natural channels along the easterly side of Biscayne Bay to Bakers Haulover Inlet, FL, about 11 miles; channel from turning basin to mouth of Miami River, 1.1 miles; existing Florida East Coast Railway Channel, Fishermans Channel from mouth of Miami River to Government Cut, 3.8 miles; and the channels reported under "Miami River, FL." |
| <i>EVERGLADES HARBOR, COLLIER COUNTY, FL</i> - No definition given   |
| <i>CANAVERAL HARBOR, FL</i><br>Entrance Channel (Atlantic Ocean) to Barrier Beach inner channel and Turning Basins, thence a Barge canal through a lock in the perimeter dike and continuing to the Intracoastal Waterway, Jacksonville to Miami.  |
| <i>CHARLOTTE HARBOR, FL</i><br>Gulf of Mexico to Municipal Terminal at Punta Gorda, about 29.5 miles; waterfront on Gasparilla Island from Port Boca Grande to Boca Grande, 4.5 miles; and Myakka River to El Jobean, 4 miles.   |
| <i>PALM BEACH HARBOR, FL</i><br>Atlantic Ocean to Port of Palm Beach Terminals, 1.7 miles; Lake Worth from Riviera Bridge to Southern Boulevard Bridge at West Palm Beach, 7.5 miles; and "Palm Beach, FL side channel and basin."   |
| <i>PORT MANATEE, FL</i><br>40 feet deep by 400 feet wide entrance channel and basin. The entrance channel extends approximately 3 miles in length from the turning basin to its intersection with Tampa Harbor main channel. Controlling Depth: 40 feet in entrance channel and turning basin.   |
| <i>PANAMA CITY HARBOR, FL</i><br>Entrance channel, inside bay and Watson Bayou. Project Depth: Approach channel, 34 feet; across Lands End, 32 feet; Watson Bayou, 10 feet.  |



**Table III-6. Definition of Port Areas Obtained from Waterborne Commerce  
(USACE, 2000)**

|  |
|--|
| <p><i>PENSACOLA HARBOR, FL</i><br/>Entrance channel and entire harbor, including Bayou Chico.<br/>Project Depth: entrance, 35 feet; Inner Harbor, 33 feet; Bayou Chico, 15 and 14 feet.</p>  |
| <p><i>WEEDON ISLAND, FL</i> – no definition</p>  |
| <p><i>BRUNSWICK HARBOR, GA</i><br/>From 32-foot contour in the ocean across the Barthrough St. Simon Sound, Brunswick River, and Turtle River to the upper end of the Allied Chemical Company's Wharf, formerly Atlantic Refining Company Wharf, 20.4 miles; from Brunswick River through East River, to the upper end of the project in Academy Creek, 2.7 miles; from St. Simon Sound through Back River to Mill Creek, the upper end of Back River improvement, 2.9 miles; from Back River through Terry Creek to the Glynn Canning Company's Wharf, 1.8 miles; a total distance of 27.8 miles.</p> |
| <p><i>SAVANNAH HARBOR, GA</i><br/>From the 40-foot contour in the ocean to the Continental Can Company Plant, 32.15 miles.</p>   |
| <p><i>LOUISVILLE, KY</i><br/>Both banks of the Ohio River from mile 606 to mile 616<br/>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.</p>  |
| <p><i>BILOXI HARBOR, MS</i><br/>Mississippi Sound, Biloxi Bay, Back Bay, and land cut to Gulfport Lake.<br/>Project Depth: East entrance channel, Mississippi Sound to Gulfport Lake, 12 feet; West entrance channel, Mississippi Sound to Biloxi Harbor, 10 feet; Ott Bayou, 12 feet.</p>   |
| <p><i>GREENVILLE, MS</i><br/>From Mississippi River mile 537 AHP left descending bank in an easterly direction, an entrance channel, 8,000 feet long and 250 feet wide transitioning into the harbor and port area 10,000 feet long and 500 feet wide, then transitioning into Lake Ferguson, a channel 5,700 feet long and 250 feet wide.</p>   |
| <p><i>GULFPORT HARBOR, MS</i><br/>Mississippi Sound Channel, Ship Island Pass Channel, and Small Craft Harbor about 4,300 feet long west of the anchorage basin.<br/>Project Depth: Mississippi Sound, 30 feet; Ship Island Pass, 32 feet; Small Craft Harbor, 8 feet.</p>   |
| <p><i>PASCAGOULA HARBOR, MS</i><br/>Lower 4 miles of Dog River and lower 6.8 miles of Pascagoula River, Mississippi Sound, Bayou Casotte, and Horn Island Pass Channels.</p>   |
| <p><i>VICKSBURG, MS</i><br/>From Mississippi River mile 437 AHP on left descending bank in a northerly direction, a channel 14,500 feet long by 150 feet wide in the Yazoo Diversion Canal, thence a dredged entrance channel 4,800 feet long and 150 feet wide, transitioning into a 300-foot wide dredged slack water harbor and turning basin 10,700 feet long.</p>   |
| <p><i>MOREHEAD CITY HARBOR, NC</i><br/>Morehead City Harbor, NC.</p>   |



**Table III-6. Definition of Port Areas Obtained from Waterborne Commerce  
(USACE, 2000)**

|  |
|--|
| <p><i>PORT OF WILMINGTON, NC</i><br/>(see also Wilmington Harbor NC for waterway data)<br/>Both banks of the Cape Fear River extending from a point about 18 miles below the foot of Castle St. in Wilmington to a point about 2 miles above the Railroad Bridge at Navassa, and both banks of Northeast (Cape Fear) River from its mouth to a point about 1.67 miles above the Hilton Railroad Bridge.</p>                  |
| <p><i>CHARLESTON HARBOR, SC</i><br/>(Including Ashley River, Cooper River, Shem Creek And Shipyard River, SC)<br/>Ocean to Goose Creek via Cooper River and Town Creek; to the Standard Wharf on Ashley River; to the Mount Pleasant Memorial Highway Bridge on Shem Creek; to the Airco Alloys Wharf on Shipyard River; Wando River to Cainhoy.</p>   |
| <p><i>GEORGETOWN HARBOR, SC (Winyah Bay)</i><br/>Atlantic Ocean Entrance to Winyah Bay, SC, to and including turning basin in Sampit River at the City of Georgetown, SC.</p>  |
| <p><i>MEMPHIS, TN</i><br/>Section Included: From mile 715.5 to mile 741.0 on Lower Mississippi River and includes Memphis Harbor (McKellar Lake) and Wolf River Harbor, Tennessee. Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.</p>   |
| <p><i>PORT OF NASHVILLE, TN</i><br/>(included in traffic of Cumberland River, TN and KY)<br/>Both banks of Cumberland River, mile 182 to mile 194<br/>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.</p>  |
| <p><i>CHATTANOOGA, TN</i><br/>Section Included: Both banks of the Tennessee River at mile 454 to 471.<br/>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.</p>  |
| <p><i>PORT OF RICHMOND, VA</i><br/>(Included in James River, VA Consolidated Report)</p>   |
| <p><i>PORT OF NEWPORT NEWS, VA</i> (Including Newport News Creek, VA)<br/>Lower east shore of James River from mouth to 1.8 miles, and portion of north shore of Hampton Roads covering approximately 15,000 linear feet of waterfront at Newport News; and Newport News Creek.</p>  |
| <p><i>PORT OF HOPEWELL, VA</i> (Included In James River VA Consolidated Report)<br/>South side of James River, from City Point, at mouth of Appomattox River, 2 miles downstream to the mouth of Baileys Creek.<br/>Controlling Depth: 25 feet at mean low water. Project Depth: 35 feet, maintained to 25 feet.</p>   |
| <p><i>NORFOLK HARBOR, VA</i><br/>From 55-foot contour in Hampton Roads to Norfolk &amp; Western (formerly Virginia) Railway Bridge Crossing Southern Branch of Elizabeth River, 14.78 miles; thence upstream in Southern Branch, 4.61 miles. In Eastern Branch, 2.54 miles upstream from the mouth of that branch; in Western Branch, 1.78 miles upstream from the mouth of that branch; and 0.73 miles in Scotts Creek.</p> |
| <p><i>HUNTINGTON, WV</i><br/>Both banks of the Ohio River from mile 303 to mile 317<br/>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.</p>  |



**Table III-6. Definition of Port Areas Obtained from Waterborne Commerce  
(USACE, 2000)**

|   |
|---|
| <b>NON-VISTAS PORTS</b>   |
| <i>HELENA, AR</i><br>Mile 659 through mile 663 on the Lower Mississippi River.<br>The project provides for maintenance of an off-river harbor with dimensions of 9 feet deep and 450 feet wide for a length of 3,200 feet.  |
| <i>MOUNT VERNON, IN</i><br>Section Included: Right Bank of Ohio River from mile 151 to mile 154.<br>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.   |
| <i>CINCINNATI, OH</i><br>Both banks of the Ohio River from mile 465 to mile 491.<br>Controlling Depth: 9 feet. Project Depth: 9 feet at low water stages.   |
| <i>PORT OF PITTSBURGH, PA</i><br>Ohio River from Pittsburgh, PA to mile 40 (Pennsylvania/Ohio State Line); Allegheny River from Pittsburgh, PA to mile 72(to head of project); Monongahela River from Pittsburgh, PA to mile 91(to head of project). Includes Aliquippa-Rochester, Pittsburgh, Clairton-Elizabeth.<br>Controlling Depth: 9 feet. Project Depth: 9 feet. |
| <i>PORT OF PLAQUEMINES, LA</i><br>Both banks of Mississippi River from mile 0 A.H.P. through mile 81.2 A.H.P<br>Controlling and Project Depths: 45 feet.  |
| <i>PORT OF BATON ROUGE, LA</i><br>Both banks of Mississippi River from mile 168.5 A.H.P. through mile 253 A.H.P; including the Baton Rouge Barge Canal from a point on the east bank of the Mississippi River at mile 234.5 A.H.P., for a distance of 5 miles.  |
| <i>PORT OF NEW ORLEANS, LA</i><br>Both banks of the Mississippi River from mile 81.2 A.H.P. through mile 114.9 A.H.P.; Innerharbor Navigation Canal, 5.5 miles; Mississippi River-Gulf Outlet from its junction with the Innerharbor Navigation Canal to Bayou Bienvenue, 7 miles; and Harvey Canal, 5.5 miles.   |
| <i>PORT OF SOUTH LOUISIANA (LA)</i><br>Both banks of Mississippi River from mile 114.9 A.H.P. through mile 168.5 A.H.P.<br>Controlling and Project Depths: 45 feet.   |



### 3. Projection Methods

Pechan then projected the revised 1999 inventory to 2002 using surrogate growth indicators. For the aircraft category, 1999 and 2002 approach operations by airport and aircraft type were compiled from the Federal Aviation Administration's Air Traffic Activity Data System (ATADS). The airport-level landing and takeoffs (LTOs) were assigned to counties and summed for the county. For counties with aircraft emissions without a county match in ATADS, State-average growth factors were calculated and applied. The county-level growth factors are not presented in this report, but could be provided to VISTAS S/L/Ts if requested.

For locomotives, projected emissions were developed in two steps as described below. For 1999 to 2001, State-level vessel bunkering and rail fuel consumption was obtained from the Energy Information Administration's (EIA's) *Fuel Oil and Kerosene Sales*. For 2001 to 2002, Pechan applied national growth factors developed from fuel consumption projections in EIA's *Annual Energy Outlook*. Table III-7a lists the growth factors for locomotives that were applied to the 1999 emissions to first develop 2001 emissions. Table III-7b lists the growth factors used to generate 2002 emissions. Locomotive emissions were not revised from the August 2003 draft VISTAS 2002 inventory.

**Table III-7a. Growth Factors for Railroad Distillate Fuel Oil Use**

| FIPSST | State          | Rail Distillate Fuel Oil Sales<br>(Thousand Gallons) |         | Growth Factor<br>(GF) |
|--------|----------------|--|---------|-----------------------|
|        |                | 1999   | 2001    |                       |
| 01     | Alabama        | 42,137   | 55,777  | 1.3                   |
| 12     | Florida        | 127,269  | 107,084 | 0.8                   |
| 13     | Georgia        | 73,494   | 70,538  | 1.0                   |
| 21     | Kentucky       | 98,941   | 99,812  | 1.0                   |
| 28     | Mississippi    | 14,267   | 24,812  | 1.7                   |
| 37     | North Carolina | 53,900   | 77,762  | 1.4                   |
| 45     | South Carolina | 13,051   | 15,936  | 1.2                   |
| 47     | Tennessee      | 44,083   | 91,363  | 2.1                   |
| 51     | Virginia       | 32,202   | 61,154  | 1.9                   |
| 54     | West Virginia  | 9,160  | 8,787   | 1.0                   |

Source: Department of Energy, Energy Information Administration Fuel Oil and Kerosene Sales 1999 & Fuel Oil and Kerosene Sales 2001 Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil  
(<http://tonto.eia.doe.gov/FTP/ROOT/petroleum/053599.pdf>), (<http://tonto.eia.doe.gov/FTP/ROOT/petroleum/053501.pdf>)



**Table III-7b. 2002 National Rail Transportation Energy Use by Fuel Type  
(Trillion BTU)**

|   | 2001   | 2002   | Growth Factor (GF) |
|---|--------|--------|--------------------|
| Intercity Rail (Electric)   | 10.17  | 10.40  | 1.0226             |
| Intercity Rail (Diesel)   | 16.60  | 16.88  | 1.0169             |
| Transit Rail (Electric)   | 46.36  | 47.40  | 1.0224             |
| <b>INTERCITY/TRANSIT RAIL AVERAGE (SCC 2285002008)</b>  |        |        | <b>1.0206</b>      |
| Commuter Rail (Electric)  | 16.13  | 16.49  | 1.0223             |
| Commuter Rail (Diesel)  | 26.31  | 26.76  | 1.0171             |
| <b>COMMUTER RAIL AVERAGE (SCC 2285002009)</b>   |        |        | <b>1.0197</b>      |
| Freight Rail (Distillate)<br>(SCCs 2285002000, 2285002005, 2285002006,<br>2285002007, 2285002010) | 512.81 | 492.32 | <b>0.9600</b>      |

Source: Department of Energy, Energy Information Administration, Annual Energy Outlook 2003: Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode ([http://www.eia.doe.gov/oiaf/aeo/supplement/sup\\_tran.pdf](http://www.eia.doe.gov/oiaf/aeo/supplement/sup_tran.pdf))

Since the CMV emissions were revised for the 1999 base year, these emissions were projected using 2002 *Fuel Oil and Kerosene Sales* data, which became available in November 2003. Table III-8 lists the growth factors for CMVs that were applied to 1999 emissions to generate 2002 emissions. The same regional growth factor that accounts for an average regional growth rate was applied to CMV emissions for all VISTAS States. Because the State-level data represents sales and not use, and CMV activity spans State borders, a regional growth factor was deemed more appropriate. Pechan could make a similar adjustment for the locomotive growth factors, which are also based on fuel sales for 1999 to 2001, if requested by VISTAS.



**Table III-8. Growth Factors for Commercial Marine Vessel Distillate and Residual Fuel Oil Use**

| FIPSST                 | State                  | Fuel Oil Sales<br>(Thousand Gallons) |         | Growth Factor (GF) |
|------------------------|------------------------|--------------------------------------|---------|--------------------|
|                        |                        | 1999                                 | 2002    |                    |
| DISTILLATE             |                        |                                      |         |                    |
| 01                     | Alabama                | 67,455                               | 73,400  | 1.1                |
| 12                     | Florida                | 139,809                              | 143,577 | 1.0                |
| 13                     | Georgia                | 17,697                               | 22,327  | 1.3                |
| 21                     | Kentucky               | 81,811                               | 56,169  | 0.7                |
| 28                     | Mississippi            | 12,749                               | 68,668  | 5.4                |
| 37                     | North Carolina         | 11,279                               | 10,057  | 0.9                |
| 45                     | South Carolina         | 12,732                               | 19,782  | 1.6                |
| 47                     | Tennessee              | 43,867                               | 112,364 | 2.6                |
| 51                     | Virginia               | 29,444                               | 28,235  | 1.0                |
| 54                     | West Virginia          | 54,560                               | 46,981  | 0.9                |
| Regional Distillate GF |                        | 471,403                              | 581,560 | 1.2                |
| RESIDUAL               |                        |                                      |         |                    |
| 01                     | Alabama                | 46,093                               | 93,487  | 2.0                |
| 12                     | Florida                | 404,228                              | 460,600 | 1.1                |
| 13                     | Georgia                | 40,117                               | 79,191  | 2.0                |
| 21                     | Kentucky <sup>1</sup>  |                                      | 69      | 1.2                |
| 28                     | Mississippi            | 48,644                               | 54,031  | 1.1                |
| 37                     | North Carolina         | 6,989                                | 35,210  | 5.0                |
| 45                     | South Carolina         | 20,056                               | 22,758  | 1.1                |
| 47                     | Tennessee <sup>1</sup> |                                      | 124     | 1.2                |
| 51                     | Virginia               | 60,090                               | 36,445  | 0.6                |
| 54                     | West Virginia          |                                      |         | 1.2                |
| Regional Residual GF   |                        | 626,217                              | 781,915 | 1.2                |

<sup>1</sup> For Kentucky, Tennessee and West Virginia, Pechan summed the 1999 and 2002 CMV residual fuel oil use to develop a total VISTAS State growth factor, which was then applied to the three States.

Source: Department of Energy, Energy Information Administration, Fuel Oil and Kerosene Sales 1999 & Fuel Oil and Kerosene Sales 2002, Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil.

## IV. ONROAD REFUELING METHODS

Emissions were separately calculated from onroad refueling, also known as Stage II emissions. Since refueling is a category of evaporative rather than exhaust emissions, VOC is the only criteria pollutant of concern for this category. This chapter discusses the controls modeled for this emission category and the methods used to calculate these emissions. Refueling emissions for onroad sources were updated in February 2004 to account for the VMT updates provided by several States.

### A. CONTROLS

Based on default information from the NEI as well as some information provided by VISTAS agencies, portions of five of the VISTAS States have onroad Stage II refueling controls in place. These States, along with the specific counties with onroad Stage II controls, are listed in Table IV-1. This table also shows information about the Stage II control program in each State including the year a Stage II program began, the number of years that the program was phased-in over, and the control efficiency of the program in reducing VOC emissions from Stage II



refueling for the LDGV, LDGT, and HDGV vehicle categories. These are the inputs required for modeling a Stage II control program using MOBILE6. States with Stage II programs should review this information and provide any corrections for the next round of emissions modeling.

**Table IV-1. Onroad Stage II Control Programs**

| State     | Start Year | Phase-In Years | Control Efficiency | Counties  |
|-----------|------------|----------------|--------------------|---|
| Florida   | 1993       | 2              | 95%                | Broward, Miami-Dade, Palm Beach   |
| Georgia   | 1992       | 3              | 81%                | Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Paulding, Rockdale   |
| Kentucky  | 1999       | 2              | 86%                | Boone, Campbell, Kenton   |
| Kentucky  | 1992       | 2              | 95%                | Jefferson   |
| Tennessee | 1993       | 3              | 95%                | Davidson, Rutherford, Sumner, Williamson, Wilson  |
| Virginia  | 1993       | 2              | 95%                | Counties: Arlington, Chesterfield, Fairfax, Hanover, Henrico, Loudoun, Prince William, Stafford<br>Independent Cities: Alexandria, Colonial Heights, Fairfax, Falls Church, Hopewell, Manassas, Manassas Park, Richmond |

## B. METHODS

A simplified set of MOBILE6.2 input files was created to simulate the onroad refueling emission factors. These input files were simplified because several of the inputs used for calculating the onroad exhaust and evaporative emission factors do not affect the refueling emission factors. For example, the refueling emission factors are unaffected by vehicle speed or I/M program. Thus, for each group of counties in a State with the same fuel parameters, temperature parameters, fleet characteristics (registration distribution, diesel sales fractions), and Stage II control program parameters, a MOBILE6.2 input file was created to model the onroad refueling emission factors. As mentioned above, speed does not affect the refueling emission factors, so each input file contained only 12 scenarios—one for each month of the year. Within each scenario, the temperature and fuel parameters were varied, using the same temperature and fuel data modeled in the onroad exhaust and evaporative MOBILE6.2 input files. Other fleet characteristics, such as registration distributions and diesel sales fractions, were included in the input files where applicable. The inputs shown in Table IV-1 were included for the input files representing counties with Stage II control programs. The header section of the MOBILE6.2 input files was set up so that only refueling emission factors would be included in the tabular output file.

After the MOBILE6.2 input files were generated, they were run through the MOBILE6.2 model to obtain refueling VOC emission factors in the database table format. These emission factors are produced for the 28 MOBILE6 vehicle types. The emission factors were then weighted using the VMT fraction information included in the MOBILE6 output tables to obtain VOC refueling emission factors for the 8 vehicle types included in the VISTAS VMT database. The VMT fraction information contained in the MOBILE6 input files is based on the default MOBILE6 registration distributions, diesel sales fractions, and VMT fractions, or, when this information is



provided in the input files, based on area-specific fleet parameters. A database of emission factors by month, county, and 8 vehicle types was then prepared. In calculating monthly onroad refueling emissions, the VISTAS annual VMT data were temporally allocated by month in the same manner as described in Chapter II for the onroad exhaust and evaporative emission calculations. These VMT were then multiplied by the corresponding monthly emission factor (in terms of grams per mile) to obtain refueling emissions from onroad vehicles. The monthly emissions for each county were then summed to obtain annual refueling emissions. Also, since refueling emissions are included in the area source inventory and are not distinguished by vehicle type, all refueling emissions from onroad vehicles were summed for each county in the VISTAS region. Summaries of the refueling emissions from onroad vehicles are presented in Chapter VI.

## **V. NONROAD REFUELING METHODS**

The NONROAD model accounts for refueling emissions from nonroad equipment under two separate components, vapor displacement and spillage. Vapor displacement emissions result when new liquid fuel being added to a fuel tank displaces fuel vapors already present in the tank. Spillage emissions result when fuel is spilled during the refueling process.

Nonroad equipment may be fueled from a gasoline pump or a portable container. Refueling nonroad equipment from a portable container results in different emissions for both spillage and vapor displacement compared to refueling from a gasoline pump. In addition, the use of portable containers also results in extra refueling events. Both spillage and displacement emissions will also occur when the container is filled from a gasoline pump. However, due to lack of data, the NONROAD2002 model does not attempt to quantify this set of refueling emissions. As such, the NONROAD model refueling emissions associated with nonroad equipment being filled directly at the gasoline pumps will be used to represent the nonroad Stage II emission component. Stage II control factors listed in Table IV-1 were input in the county-specific NONROAD model option files. Once the model runs were performed, Pechan extracted the refueling and spillage emissions corresponding only to those engines (typically the larger horsepower engines) within each SCC assumed to be refueled at the pump. The list of SCC and horsepower ranges associated with pump versus container refueling is specified in the model since different emission rates are assumed for these two types of refueling.

Table V-1 presents draft annual Stage II VOC emission estimates by State. These emissions were combined with the onroad vehicle Stage II estimates described in Section IV of this report.



**Table V-1. 2002 Draft Stage II Refueling Emissions by State**

| <b>FIPSST</b> | <b>NAME</b>    | <b>VOC Emissions, tpy</b> |
|---------------|----------------|---------------------------|
| 01            | Alabama        | 167.25                    |
| 12            | Florida        | 842.60                    |
| 13            | Georgia        | 209.01                    |
| 21            | Kentucky       | 112.65                    |
| 28            | Mississippi    | 147.18                    |
| 37            | North Carolina | 298.49                    |
| 45            | Tennessee      | 197.81                    |
| 47            | South Carolina | 155.33                    |
| 51            | Virginia       | 174.70                    |
| 54            | West Virginia  | 39.33                     |

## **VI. SUMMARY OF RESULTS**

This chapter presents the emission results from the February 2004 draft version of the 2002 mobile source emissions inventory for the VISTAS region. These emissions result from the data and procedures described in the preceding chapters of this report.

### **A. ONROAD RESULTS**

Table VI-1 summarizes the latest 2002 VISTAS onroad emissions inventory by State. This table also summarizes the total VMT for each State. Tables VI-2 and VI-3 are provided here for the purpose of comparing this inventory with another existing onroad inventory. The emissions shown in Table VI-2 are taken from Version 2 of EPA's 1999 NEI. Table VI-3 then shows the percentage change from the 1999 NEI to the 2002 draft VISTAS inventory. If the two inventories had been developed using comparable data, one would generally expect to see reductions in the onroad emissions from 1999 to 2002 due to fleet turnover resulting in the replacement of older, dirtier vehicles with vehicles meeting more stringent emission standards. However, this reduction in per-vehicle emissions also needs to overcome increases in VMT for the overall emissions to decrease. All of the VISTAS States show increases in VMT from 1999 to 2002, except North Carolina. This decrease in VMT needs to be further investigated by the State agency. States that were modeled with significant State or locally supplied inputs in the VISTAS modeling, such as Virginia and Georgia, would be expected to have more significant differences from the NEI data than States with no State-supplied information other than VMT. Some of the State inputs that cause significant deviations from the NEI estimates are registration distributions, VMT mixes by vehicle type, and speeds by road type. In addition, some of the pollutants are more affected by these inputs, while others (such as NH<sub>3</sub>) are minimally affected by these inputs. The 2002 VISTAS onroad emissions will continue to undergo review. Any comments or questions on these emissions by the State or local agencies will be investigated as part of this review.



**Table VI-1. 2002 VISTAS Onroad Emissions and VMT by State  
(February 2004 Version)**

| State               | 2002 Annual Emissions (tons per year) |                  |                   |               |               |               |               | 2002 Annual VMT<br>(million miles) |
|---------------------|---------------------------------------|------------------|-------------------|---------------|---------------|---------------|---------------|------------------------------------|
|                     | VOC                                   | NOx              | CO                | SO2           | PM10          | PM2.5         | NH3           |                                    |
| Alabama             | 99,650                                | 154,908          | 1,275,969         | 6,515         | 4,344         | 3,231         | 5,619         | 55,723                             |
| Florida             | 457,309                               | 463,419          | 4,678,471         | 19,739        | 12,666        | 9,232         | 18,240        | 178,681                            |
| Georgia             | 215,035                               | 311,125          | 2,601,785         | 11,487        | 8,038         | 5,942         | 10,612        | 106,785                            |
| Kentucky            | 79,110                                | 164,231          | 1,196,211         | 5,718         | 4,083         | 3,048         | 5,103         | 51,020                             |
| Mississippi         | 68,508                                | 107,047          | 845,990           | 4,354         | 3,152         | 2,399         | 3,603         | 36,278                             |
| North Carolina      | 147,977                               | 278,265          | 2,116,829         | 9,953         | 6,374         | 4,741         | 7,868         | 80,166                             |
| South Carolina      | 92,491                                | 136,569          | 1,192,894         | 5,647         | 3,825         | 2,867         | 4,719         | 47,074                             |
| Tennessee           | 126,959                               | 255,090          | 1,785,136         | 8,115         | 5,445         | 4,059         | 6,855         | 68,316                             |
| Virginia            | 115,044                               | 182,513          | 1,858,629         | 6,110         | 4,413         | 3,032         | 7,937         | 76,566                             |
| West Virginia       | 34,197                                | 57,941           | 512,592           | 2,361         | 1,550         | 1,155         | 1,947         | 19,544                             |
| <b>VISTAS Total</b> | <b>1,436,279</b>                      | <b>2,111,108</b> | <b>18,064,506</b> | <b>79,999</b> | <b>53,890</b> | <b>39,705</b> | <b>72,504</b> | <b>720,153</b>                     |

**Table VI-2. 1999 NEI Version 2 Onroad Emissions and VMT by State**

| State               | 1999 Annual Emissions (tons per year) |                  |                   |               |               |               |               | 1999 Annual VMT<br>(million miles) |
|---------------------|---------------------------------------|------------------|-------------------|---------------|---------------|---------------|---------------|------------------------------------|
|                     | VOC                                   | NOx              | CO                | SO2           | PM10          | PM2.5         | NH3           |                                    |
| Alabama             | 121,201                               | 163,024          | 1,412,343         | 6,280         | 4,712         | 3,599         | 5,249         | 52,914                             |
| Florida             | 328,412                               | 424,969          | 3,379,563         | 16,581        | 12,259        | 9,318         | 14,162        | 141,903                            |
| Georgia             | 207,562                               | 313,568          | 2,526,592         | 12,028        | 9,263         | 7,139         | 9,787         | 98,859                             |
| Kentucky            | 97,286                                | 162,160          | 1,225,414         | 6,006         | 4,772         | 3,715         | 4,703         | 47,816                             |
| Mississippi         | 74,579                                | 126,344          | 830,477           | 4,478         | 3,908         | 3,106         | 3,406         | 34,955                             |
| North Carolina      | 187,346                               | 285,380          | 2,252,671         | 10,829        | 8,462         | 6,552         | 8,663         | 87,759                             |
| South Carolina      | 98,010                                | 153,346          | 1,207,336         | 5,616         | 4,515         | 3,527         | 4,330         | 44,146                             |
| Tennessee           | 138,629                               | 211,133          | 1,697,778         | 7,876         | 6,108         | 4,716         | 6,392         | 64,570                             |
| Virginia            | 150,528                               | 238,515          | 1,861,417         | 8,972         | 6,892         | 5,307         | 7,320         | 73,904                             |
| West Virginia       | 40,060                                | 68,580           | 539,578           | 2,471         | 2,023         | 1,589         | 1,859         | 19,033                             |
| <b>VISTAS Total</b> | <b>1,443,613</b>                      | <b>2,147,019</b> | <b>16,933,170</b> | <b>81,137</b> | <b>62,913</b> | <b>48,567</b> | <b>65,871</b> | <b>665,859</b>                     |



**Table VI-3. Change in Onroad Emissions and VMT from 1999 NEI Version 2 to VISTAS 2002 Inventory (February 2004 Version)**

| State               | Change from 1999 NEI V2 to 2002 VISTAS Draft Inventory |      |      |      |      |       |     | VMT |
|---------------------|--|------|------|------|------|-------|-----|-----|
|                     | VOC  | NOx  | CO   | SO2  | PM10 | PM2.5 | NH3 |     |
| Alabama             | -18%   | -5%  | -10% | 4%   | -8%  | -10%  | 7%  | 5%  |
| Florida             | 39%  | 9%   | 38%  | 19%  | 3%   | -1%   | 29% | 26% |
| Georgia             | 4%   | -1%  | 3%   | -4%  | -13% | -17%  | 8%  | 8%  |
| Kentucky            | -19%   | 1%   | -2%  | -5%  | -14% | -18%  | 9%  | 7%  |
| Mississippi         | -8%  | -15% | 2%   | -3%  | -19% | -23%  | 6%  | 4%  |
| North Carolina      | -21%   | -2%  | -6%  | -8%  | -25% | -28%  | -9% | -9% |
| South Carolina      | -6%  | -11% | -1%  | 1%   | -15% | -19%  | 9%  | 7%  |
| Tennessee           | -8%  | 21%  | 5%   | 3%   | -11% | -14%  | 7%  | 6%  |
| Virginia            | -24%   | -23% | 0%   | -32% | -36% | -43%  | 8%  | 4%  |
| West Virginia       | -15%   | -16% | -5%  | -4%  | -23% | -27%  | 5%  | 3%  |
| <b>VISTAS Total</b> | -1%  | -2%  | 7%   | -1%  | -14% | -18%  | 10% | 8%  |

Table VI-4 presents the latest 2002 VISTAS onroad refueling emission estimates by State. These refueling emissions are NOT included in the emissions shown in Tables VI-1 through VI-3.

**Table VI-4. 2002 VISTAS Annual Onroad Refueling Emissions**

| State               | 2002 Annual Onroad VOC Refueling Emissions<br>(tons per year) |
|---------------------|---|
| Alabama             | 8,408   |
| Florida             | 28,367  |
| Georgia             | 12,329  |
| Kentucky            | 6,885   |
| Mississippi         | 6,057   |
| North Carolina      | 15,320  |
| South Carolina      | 8,926   |
| Tennessee           | 9,901   |
| Virginia            | 8,657   |
| West Virginia       | 3,383   |
| <b>VISTAS Total</b> | <b>108,233</b>  |

## B. NONROAD RESULTS

Table VI-5 provides a summary of draft 2002 nonroad sector annual emissions by State, including Stage II refueling emission estimates. Table VI-6 provides a summary of the draft 2002 NONROAD model emission estimates by State, and compares the values to 2001 NONROAD model NEI Version 2 estimates by showing the percent difference. A similar comparison is shown in Table VI-7 for other nonroad emission estimates compared to the 1999 NEI Version 2.



For the NONROAD model categories, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and NH<sub>3</sub> decrease consistently across all States. SO<sub>2</sub> emissions decrease due in part to a lower diesel fuel sulfur content input for the NONROAD model runs, which also contributes to decreases in particulate emissions. The decrease in NH<sub>3</sub> is due primarily to corrections made to compressed natural gas (CNG) engine NH<sub>3</sub> emissions, which involved zeroing out the estimates. The 1999 NEI erroneously applied emission factors on a grams per gallon basis to CNG fuel consumption. Although reported as uncompressed gallons in the NONROAD model, the CNG fuel consumption estimates represent a gaseous, not liquid, volume. Based on OTAQ's recommendations, CNG NH<sub>3</sub> emissions are now reported as zero. CO and NO<sub>x</sub> show little change for all States, and changes in VOC vary by State and are dependent on the contribution of specific equipment categories (detail not shown).

For other nonroad categories, the increase in PM<sub>10</sub> and PM<sub>2.5</sub> is due to the addition of commercial aircraft PM emissions. Commercial aircraft PM<sub>10</sub> and PM<sub>2.5</sub> emissions were zero in the 1999 NEI; hence, the large percent increase. To gap fill this portion of the inventory, Pechan calculated and applied an average air taxi PM/NO<sub>x</sub> emission ratio to commercial aircraft NO<sub>x</sub> emissions. States with a higher proportion of commercial aircraft show significant PM increases (e.g., FL, TN, VA). In addition, NO<sub>x</sub> emissions decrease due to new State data for other nonroad from AL and VA.

**Table VI-5. Summary of Draft 2002 Nonroad Sector Annual Emissions by State, tons per year**

| FIPSST | STATE          | VOC     | NOX     | CO        | PM10-PRI | PM25-PRI | SO2    | NH3 |
|--------|----------------|---------|---------|-----------|----------|----------|--------|-----|
| 01     | Alabama        | 46,788  | 64,367  | 373,634   | 5,504    | 4,895    | 7,529  | 32  |
| 12     | Florida        | 211,006 | 153,396 | 1,765,539 | 61,426   | 45,849   | 17,453 | 109 |
| 13     | Georgia        | 66,712  | 87,053  | 712,159   | 10,411   | 8,666    | 7,914  | 55  |
| 21     | Kentucky       | 35,537  | 100,989 | 294,929   | 8,538    | 7,249    | 13,771 | 28  |
| 28     | Mississippi    | 33,443  | 90,190  | 217,407   | 5,795    | 5,194    | 11,537 | 23  |
| 37     | North Carolina | 75,020  | 81,264  | 742,822   | 12,814   | 10,379   | 7,281  | 62  |
| 45     | South Carolina | 43,231  | 46,518  | 375,469   | 4,115    | 3,678    | 4,465  | 29  |
| 47     | Tennessee      | 52,333  | 118,690 | 461,976   | 14,727   | 11,692   | 12,478 | 41  |
| 51     | Virginia       | 61,655  | 69,668  | 614,958   | 21,580   | 16,497   | 11,068 | 44  |
| 54     | West Virginia  | 15,497  | 36,613  | 120,029   | 2,293    | 2,034    | 2,388  | 10  |



**Table VI-6. Summary of Draft 2002 NONROAD Model Emission Estimates by State**

| <b>2002 DRAFT VISTAS NONROAD Model Inventory, tpy</b> |                |                |                |               |                 |                 |                |                |
|---|----------------|----------------|----------------|---------------|-----------------|-----------------|----------------|----------------|
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SO2_ANN</b> | <b>NH3_ANN</b> |
| 01  | Alabama        | 44,501.18      | 28,635.48      | 365,161.12    | 3,306.84        | 3,044.48        | 2,729.32       | 31.92          |
| 12  | Florida        | 205,489.66     | 86,654.40      | 1,730,125.77  | 12,890.06       | 11,862.13       | 9,113.26       | 109.02         |
| 13  | Georgia        | 65,054.02      | 51,452.93      | 705,292.75    | 5,493.33        | 5,057.34        | 5,025.11       | 54.97          |
| 21  | Kentucky       | 32,836.91      | 28,253.72      | 283,488.53    | 3,152.29        | 2,901.82        | 2,777.69       | 28.00          |
| 28  | Mississippi    | 31,097.14      | 23,549.89      | 207,824.23    | 2,761.65        | 2,542.05        | 2,375.53       | 23.37          |
| 37  | North Carolina | 73,610.93      | 58,667.62      | 734,496.85    | 6,095.96        | 5,613.11        | 5,442.35       | 62.06          |
| 45  | South Carolina | 41,652.41      | 26,212.76      | 366,737.16    | 3,028.92        | 2,788.66        | 2,461.79       | 29.29          |
| 47  | Tennessee      | 48,626.66      | 39,833.95      | 446,461.43    | 4,240.53        | 3,904.21        | 3,810.11       | 41.22          |
| 51  | Virginia       | 56,973.85      | 40,914.48      | 594,020.13    | 4,739.47        | 4,362.61        | 4,103.01       | 44.22          |
| 54  | West Virginia  | 14,498.68      | 9,502.33       | 115,652.49    | 1,038.29        | 955.70          | 980.17         | 10.31          |
| <b>2001 NONROAD Model NEI Version 2, tpy</b>          |                |                |                |               |                 |                 |                |                |
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SOX_ANN</b> | <b>NH3_ANN</b> |
| 01  | Alabama        | 43,602.83      | 28,786.95      | 360,439.36    | 3,422.60        | 3,150.91        | 3,110.79       | 581.69         |
| 12  | Florida        | 188,868.96     | 86,835.32      | 1,713,539.62  | 13,243.04       | 12,186.78       | 10,456.05      | 1,305.25       |
| 13  | Georgia        | 63,927.85      | 51,521.66      | 698,868.77    | 5,678.55        | 5,227.63        | 5,749.47       | 989.31         |
| 21  | Kentucky       | 31,662.34      | 28,350.32      | 279,283.79    | 3,274.35        | 3,014.06        | 3,127.88       | 463.74         |
| 28  | Mississippi    | 29,037.96      | 23,671.70      | 205,664.64    | 2,877.28        | 2,648.40        | 2,668.55       | 359.21         |
| 37  | North Carolina | 69,671.36      | 58,742.13      | 724,908.46    | 6,300.02        | 5,800.72        | 6,196.92       | 1,223.82       |
| 45  | South Carolina | 39,310.79      | 26,304.57      | 363,112.01    | 3,130.17        | 2,881.75        | 2,817.02       | 507.81         |
| 47  | Tennessee      | 47,193.97      | 39,916.38      | 440,915.76    | 4,395.90        | 4,047.06        | 4,337.42       | 749.51         |
| 51  | Virginia       | 55,459.80      | 41,082.63      | 585,850.58    | 4,887.90        | 4,499.09        | 4,677.52       | 627.60         |
| 54  | West Virginia  | 13,912.53      | 9,568.82       | 113,766.38    | 1,076.32        | 990.67          | 1,113.21       | 179.75         |
| <b>Percent Difference</b>                             |                |                |                |               |                 |                 |                |                |
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SOX_ANN</b> | <b>NH3_ANN</b> |
| 01  | Alabama        | 2.06%          | -0.53%         | 1.31%         | -3.38%          | -3.38%          | -12.26%        | -94.51%        |
| 12  | Florida        | 8.80%          | -0.21%         | 0.97%         | -2.67%          | -2.66%          | -12.84%        | -91.65%        |
| 13  | Georgia        | 1.76%          | -0.13%         | 0.92%         | -3.26%          | -3.26%          | -12.60%        | -94.44%        |
| 21  | Kentucky       | 3.71%          | -0.34%         | 1.51%         | -3.73%          | -3.72%          | -11.20%        | -93.96%        |
| 28  | Mississippi    | 7.09%          | -0.51%         | 1.05%         | -4.02%          | -4.02%          | -10.98%        | -93.50%        |
| 37  | North Carolina | 5.65%          | -0.13%         | 1.32%         | -3.24%          | -3.23%          | -12.18%        | -94.93%        |
| 45  | South Carolina | 5.96%          | -0.35%         | 1.00%         | -3.23%          | -3.23%          | -12.61%        | -94.23%        |
| 47  | Tennessee      | 3.04%          | -0.21%         | 1.26%         | -3.53%          | -3.53%          | -12.16%        | -94.50%        |
| 51  | Virginia       | 2.73%          | -0.41%         | 1.39%         | -3.04%          | -3.03%          | -12.28%        | -92.95%        |
| 54  | West Virginia  | 4.21%          | -0.69%         | 1.66%         | -3.53%          | -3.53%          | -11.95%        | -94.26%        |



**Table VI-7. Summary of Draft 2002 Other Nonroad\* Emission Estimates by State**

| <b>2002 DRAFT VISTAS Other Nonroad Inventory, tpy</b> |                |                |                |               |                 |                 |                |
|---|----------------|----------------|----------------|---------------|-----------------|-----------------|----------------|
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SO2_ANN</b> |
| 01  | Alabama        | 2,286.81       | 35,731.80      | 8,473.33      | 2,196.87        | 1,850.82        | 4,799.75       |
| 12  | Florida        | 5,516.71       | 66,741.52      | 35,413.13     | 48,536.33       | 33,987.28       | 8,340.05       |
| 13  | Georgia        | 1,657.99       | 35,599.76      | 6,865.94      | 4,917.40        | 3,609.14        | 2,889.06       |
| 21  | Kentucky       | 2,699.92       | 72,735.57      | 11,440.23     | 5,385.61        | 4,346.83        | 10,992.91      |
| 28  | Mississippi    | 2,345.96       | 66,640.48      | 9,582.89      | 3,033.69        | 2,652.14        | 9,161.66       |
| 37  | North Carolina | 1,409.01       | 22,596.53      | 8,325.56      | 6,718.49        | 4,766.12        | 1,838.68       |
| 45  | South Carolina | 1,578.34       | 20,304.80      | 8,732.26      | 1,086.01        | 889.24          | 2,002.78       |
| 47  | Tennessee      | 3,706.17       | 78,855.60      | 15,514.17     | 10,486.01       | 7,787.92        | 8,667.84       |
| 51  | Virginia       | 4,681.39       | 28,753.43      | 20,938.22     | 16,840.30       | 12,134.84       | 6,965.04       |
| 54  | West Virginia  | 998.41         | 27,110.49      | 4,376.64      | 1,254.86        | 1,077.93        | 1,408.05       |
| <b>1999 Other Nonroad NEI Version 2, tpy</b>          |                |                |                |               |                 |                 |                |
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SO2_ANN</b> |
| 01  | Alabama        | 7,309.83       | 152,338.93     | 25,075.50     | 1,315.93        | 1,176.15        | 3,854.54       |
| 12  | Florida        | 3,945.18       | 56,197.72      | 25,350.10     | 2,110.74        | 1,881.95        | 6,878.28       |
| 13  | Georgia        | 2,594.07       | 39,245.14      | 12,198.09     | 1,072.08        | 953.43          | 3,070.41       |
| 21  | Kentucky       | 2,676.93       | 62,930.31      | 12,388.06     | 2,370.31        | 2,153.93        | 8,965.67       |
| 28  | Mississippi    | 1,755.99       | 48,927.22      | 8,072.51      | 1,917.16        | 1,747.89        | 7,051.91       |
| 37  | North Carolina | 1,447.95       | 17,999.44      | 8,739.21      | 540.09          | 470.85          | 1,508.40       |
| 45  | South Carolina | 2,470.03       | 18,034.10      | 13,291.47     | 561.99          | 503.60          | 1,858.19       |
| 47  | Tennessee      | 2,426.97       | 51,133.47      | 11,127.02     | 1,786.06        | 1,616.72        | 6,266.91       |
| 51  | Virginia       | 2,682.78       | 51,592.64      | 13,083.30     | 1,632.38        | 1,462.82        | 4,769.97       |
| 54  | West Virginia  | 1,133.03       | 30,991.75      | 4,858.71      | 1,151.55        | 1,048.38        | 4,097.15       |
| <b>Percent Difference</b>                             |                |                |                |               |                 |                 |                |
| <b>FIPSST</b>   | <b>STATE</b>   | <b>VOC_ANN</b> | <b>NOX_ANN</b> | <b>CO_ANN</b> | <b>PM10_ANN</b> | <b>PM25_ANN</b> | <b>SO2_ANN</b> |
| 01  | Alabama        | -69%           | -77%           | -66%          | 67%             | 57%             | 25%            |
| 12  | Florida        | 40%            | 19%            | 40%           | 2199%           | 1706%           | 21%            |
| 13  | Georgia        | -36%           | -9%            | -44%          | 359%            | 279%            | -6%            |
| 21  | Kentucky       | 1%             | 16%            | -8%           | 127%            | 102%            | 23%            |
| 28  | Mississippi    | 34%            | 36%            | 19%           | 58%             | 52%             | 30%            |
| 37  | North Carolina | -3%            | 26%            | -5%           | 1144%           | 912%            | 22%            |
| 45  | South Carolina | -36%           | 13%            | -34%          | 93%             | 77%             | 8%             |
| 47  | Tennessee      | 53%            | 54%            | 39%           | 487%            | 382%            | 38%            |
| 51  | Virginia       | 74%            | -44%           | 60%           | 932%            | 730%            | 46%            |
| 54  | West Virginia  | -12%           | -13%           | -10%          | 9%              | 3%              | -66%           |

\*Includes emissions from aircraft, commercial marine and locomotive SCCs



## **VII. OBSERVATIONS AND RECOMMENDATIONS FOR IMPROVEMENT**

This chapter lists several areas where the onroad and nonroad emission inventories could be improved. Some of these improvements require a long lead-time for the States and would not likely be available for the final 2002 VISTAS modeling, but could improve future State and regional inventory efforts.

### **A. ONROAD SECTOR IMPROVEMENTS**

In the onroad sector, significant improvements have been made to the inventory due to the State and local agencies providing 2002 VMT data by county and roadway type. For this February 2004 version of the VISTAS onroad inventory, only the Virginia VMT were projected by Pechan. It is anticipated that this States will be able to provide 2002 VMT data for use in the next revision of the inventory.

Local registration distribution data were provided by fewer than half of the VISTAS States. In many cases, registration data can be obtained from State Departments of Motor Vehicles. States that do not already do so should request a download of the data summarizing registrations by model year and vehicle class from their appropriate motor vehicle agency. Although it is probably too late in many cases to obtain 2002 data, 2003 registration data could be used with some adjustments in developing the 2002 emission inventories. Registration data will become even more important as VISTAS prepares to project a 2018 onroad emission inventory, since the 2018 projections will be affected by the number of vehicles that are subject to the Tier 2 emission standards and the new heavy duty vehicle standards. The registration distributions directly determine the proportion of vehicles subject to these new emission standards.

A relatively small amount of data was obtained regarding the distribution of VMT by season or month. Many State Departments of Transportation collect data that could be used to better distribute VMT by season or month. States should check to see what is available. These distributions will affect the episodic modeling that will be conducted by VISTAS. Pechan is currently performing a VMT scoping study for VISTAS to determine what data are available for better allocating VMT and emissions by month, day, and hour. These temporal improvements are expected to be incorporated into the next update of the VISTAS onroad emission inventory.

Due to the direct relationship between the VMT mix by vehicle type and the overall emissions, States should investigate potential sources of information for this data to replace the default data used here in most States.

EPA is currently in the process of preparing guidance on estimating emissions from heavy duty vehicles during long-term idling (sometimes referred to as hotelling). While these emissions are theoretically included in the MOBILE6 HDDV emission factors, they are not currently accounted for in the appropriate locations. For example, these emissions would typically occur at rest stops, trucking centers, and warehouse and distribution centers. With the current modeling, these emissions are spread over all counties, based on the VMT traveled by HDDVs in each county. If significant sources of truck idling emissions occur in or near Class I areas, the



current modeling may be underestimating the effect of these emissions. If States are able to obtain data on the locations and utilization of truck rest stops, some of this emissions effect could be more appropriately accounted for in future versions of VISTAS modeling.

## **B. NONROAD SECTOR IMPROVEMENTS**

NH<sub>3</sub> emissions for aircraft, commercial marine and locomotives are still reported as zero. As a result of recent communications with OTAQ, Pechan would suggest applying the updated nonroad diesel NH<sub>3</sub> emission factors used for the NONROAD model categories to activity data for commercial marine vessels and locomotives. To develop ammonia from commercial marine vessels and locomotives, Pechan would need to obtain or compile the county-level fuel consumption estimates used as the basis for 1999 emissions for these categories to use as the activity data for calculating updated NH<sub>3</sub> emissions. The presence of State or local data in the 1999 NEI does not allow for this to be determined easily by backing out the reported emission factors, and in some cases (e.g., diesel commercial marine), actual emissions (instead of activity) were obtained at a national level and allocated to counties (EPA, 2002). Alternatively, Pechan could use county level fuel consumption estimates developed for these categories for 2000 or 2001. These activity data were used by Pechan to estimate dioxin/furan emission estimates for the 2000 and 2001 NEI. Pechan could normalize the 2000 or 2001 county distribution to national level fuel consumption estimates for 1999. Due to the characteristics of aircraft jet and piston engines, Pechan does not recommend estimating aircraft NH<sub>3</sub> emissions using the available NH<sub>3</sub> emission factors.

## **VIII. REFERENCES**

- EPA, 1989: "Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources." U.S. Environmental Protection Agency, Office of Mobile Sources and Office of Air Quality Planning and Standards, EPA 450/4-81-026d (Revised). July 1989.
- EPA, 2002. "Documentation for Aircraft, Commercial Marine Vessel, Locomotive, and Other Nonroad Components of the National Emissions Inventory," prepared by Eastern Research Group, Morrisville, NC for the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC. September 30, 2002.
- Harvey, 1983. Craig Harvey, et al. "A Study of the Potential Impact of Some Unregulated Motor Vehicle Emissions.," SAE Paper 830987. June 1983.
- Harvey, 2003. C. Harvey, U.S. Environmental Protection Agency, Office of Transportation and Air Quality, e-mail entitled "NH<sub>3</sub> Emission Updates," sent to K. Thesing, E.H. Pechan & Associates, Inc. June 30, 2003.
- USACE, 2000: *Waterborne Commerce of the United States, Calendar Year 1999*, IWR-WCUS-99-2 U.S. Army Corps of Engineers. 2000.



USACE, 2003: U.S. Waterways Data, Port and Waterway Facilities, [Data file]. Accessed from U.S. Army Corps of Engineers, <http://www.iwr.usace.army.mil/ndc/data/datapwd.htm> on December 12, 2003.



---

## ***Technical Memorandum: Control Packet Development and Data Sources***

**Contract No:** 68D-02-066

**Assignment No:** 2-03

---

**Prepared for:** Marc Houyoux  
U.S. EPA, OAQPS  
D205-01  
U.S. EPA Mailroom  
Research Triangle Park, NC 27711

**Prepared by:** Gregory Stella  
Alpine Geophysics, LLC  
387 Pollard Mine Road  
Burnsville, NC 28714

**Date:** 14 July 2004



## CONTENTS

|       |   |    |
|-------|---|----|
| 1     | BACKGROUND .....  | 1  |
| 2     | GENERAL.....  | 1  |
| 3     | DATA COLLECTION EFFORT .....  | 1  |
| 3.1   | IAQR Strategies .....   | 2  |
| 3.2   | Section 812 Contractor Support.....   | 2  |
| 3.3   | EMAD Staff Communication.....   | 2  |
| 3.4   | Contractor Initiated Strategy Collection and Revision.....                    | 3  |
| 4     | POINT SOURCE CONTROL PACKETS .....  | 3  |
| 5     | AREA SOURCE CONTROL PACKETS .....   | 6  |
| 6     | DEVELOPMENT DISCUSSION AND SUGGESTED APPLICATIONS OF CONTROL<br>PACKETS ..... | 7  |
| 6.1   | Point Source Control Packet.....  | 8  |
| 6.1.1 | MACT Application.....   | 8  |
| 6.1.2 | Department of Justice Settlements.....  | 8  |
| 6.1.3 | Regional Transport NOx SIP Call .....   | 8  |
| 6.2   | Area Source Control Packet.....   | 8  |
| 6.2.1 | MACT Application.....   | 9  |
| 6.2.2 | Stage II Gasoline Distribution Controls .....                                 | 9  |
| 6.2.3 | Residential Wood Combustion.....  | 9  |
| 6.2.4 | Exclusion of Some National Control Measures.....                              | 9  |
| 7     | REFERENCES .....  | 10 |

## APPENDICES

|    |  |     |
|----|--|-----|
| A. | POINT SOURCE CONTROL PACKET CONTENTS ..... | A-1 |
| B. | AREA SOURCE CONTROL PACKET CONTENTS .....  | B-1 |



## 1 BACKGROUND

In support of the Clean Air Interstate Rule (CAIR), the U.S. Environmental Protection Agency (EPA) is conducting annual and national scale modeling of future year emissions. To support these efforts, future year model-ready emissions must be created by applying growth and control factors to a 2001 base year inventory and by processing future year inventories developed by other models. EPA would like to create future year inventories files in Sparse Matrix Operator Kernel Emissions (SMOKE) modeling system input form for all source sectors.

The purpose of this document is to explain the controls included in control packets developed under Tasks 3 and 6 of this assignment, the source of the data for each control, and how the data were handled when more than one regulation applied to a single data source. Included in the appendices of this document are spreadsheets that list each source (e.g., facility, SCC, etc.) to which controls were applied and which controls were applicable to those sources – both the factors as applied and the plain-language explanation of the source of the emissions reduction.

## 2 GENERAL

The purpose of the control packet development tasks was to review, document, and convert EPA's 2007, 2010 and 2015 control strategies for stationary area and non-EGU point sources into SMOKE control packet format for use in developing control future year from base year emissions. It was expected that recent EPA regulation applied during the Interstate Air Quality Transport Rule (IAQR) proposal would be the basis of the tasks. Additionally, where information is available in a timely and easily convertible format, EPA was to provide documentation or files for other applicable pollutant control strategies. These programs may have included strategies related to federal, state, local, or industry-initiative regulation.

Our attention was directed on data collection and preparation efforts for criteria pollutant strategies while retaining information relative to hazardous air pollutant (HAP) programs.

The EPA control programs identified by the WAM to be considered for this effort included the turbine Maximum Achievable Control Technology (MACT), internal combustion engine MACT, industrial boiler/process heater MACT, RACT for NAAQS, rate-of progress for NAAQS, and BART regulations. Additionally, State-specific SIP programs and industry-related initiatives and consent agreements were reviewed for inclusion.

It was expected that some of the identified control programs would not lend themselves to application with control packets in the SMOKE model. In these cases, the contractor was to suggest other formats and methods which would need to be added to SMOKE in order to accomplish the proper application of strategies in the future year.

## 3 DATA COLLECTION EFFORT

As outlined in our work plan response to EPA's assignment, we reviewed existing control strategies as applied in recent EPA modeling of the IAQR. Additionally, contact was made with



EPA's Section 812 contractors for additional coordinated factor development. The Section 812 contractor is currently tasked to develop various control strategy impacted emission inventories for purposes of reviewing the efficacy of the Clean Air Act and its Amendments (CAAA). Staff from the WAM's division, the Emissions, Monitoring, and Analysis Division (EMAD), was also contacted regarding updates, revisions, and additional strategies to be included in the control packet development process. Finally, limited by the required deliverable date of the control packets, we conducted additional control strategy identification steps to locate supplementary sources of information.

### 3.1 IAQR Strategies

As detailed in the technical support document (TSD) for the IAQR inventory development process (EPA, 2004), non-EGU and stationary area source control strategies were largely based on programs and technologies applied during the development of inventories for the Heavy Duty Diesel Engines (HDDE) (EPA, 2000) and Land-based Nonroad Diesel Engine (LNDE) proposed rule modeling (EPA, 2003a).

An excerpt from the IAQR TSD is as follows and defines the control strategies included in the base case modeling (emphasis added).

“Specifically, the future base case scenarios include the effects of the LNDE as proposed, the HDDE standards, the Tier 2 tailpipe standards, *the NO<sub>x</sub> SIP Call as remanded (excludes controls in Georgia and Missouri), and Reasonably Available Control Techniques (RACT) for NO<sub>x</sub> in 1-hour ozone nonattainment areas.* Adjustments were also made to the non-road sector inventories to include the effects of the Large Spark Ignition and Recreational Vehicle rules; *and to the non-EGU sector inventories to include the SO<sub>2</sub> and particulate matter co-benefit effects of the proposed Maximum Achievable Control Technology (MACT) standard for Industrial Boilers and Process Heaters.*”

### 3.2 Section 812 Contractor Support

E.H. Pechan and Associates, Inc. (Pechan) is currently a subcontractor to Industrial Economics, Incorporated who in turn is under contract to EPA's Office of Air and Radiation (OAR) to assess the economic impacts of all provisions of the 1990 Clean Air Act Amendments. Personal communications with Jim Wilson of Pechan (Pechan, 2004) produced more recent reduction assumptions for some of the strategies applied in the IAQR inventory development process.

Provided by Pechan were post-2002 MACT standards and area source solvent category emission controls. In both cases, reductions only for VOC emissions were provided.

### 3.3 EMAD Staff Communication

Personal communications with EMAD staff (Ron Ryan, Madeleine Strum, Norm Possiel, Marc Houyoux) provided additional clarification and information on control strategies to modify or include in the control packets developed under this task.



These communications provided emission reduction strategies for a variety of sources and pollutants related to criteria modeling of stationary area and non-EGU point source emissions. Included in this list were 1-hr ozone attainment SIPs for numerous areas (Pechan, 2002), Phase II of the NO<sub>x</sub> SIP Call, multiple general MACT standards (although many only reference hazardous air pollutant (HAP) control), specific MACTs for taconite ore processing, lime manufacturing, auto and light-duty truck manufacturing, and reciprocating internal combustion engines (RICE), architectural and industrial maintenance coatings and consumer/commercial solvents, as well as Department of Justice settlements and consent decrees.

### **3.4 Contractor Initiated Strategy Collection and Revision**

Because Alpine staff determined that more recent publications on Stage I and II gasoline distribution and vehicle refueling (EPA, 2003b) were available than were used in the IAQR modeling, these data were collected and incorporated into the control packets developed under this assignment.

## **4 POINT SOURCE CONTROL PACKETS**

Point source control packets were developed in SMOKE 2.0 input format as required by Tasks 2 and 6 of this assignment. Control strategies and implementation for non-EGU point sources were determined to be similar for each of the years modeled under this assignment (2007, 2010, and 2015). For this reason, a single control packet was developed for non-EGU point sources and was applicable to all three years.

Control strategies and their associated pollutant-specific reductions were developed and included in these control packets under the assumption (and clarified by the WAM) that they would be applied to uncontrolled emissions of the affected source. In other words, if existing control efficiencies of the same source-pollutant combination were included in the 2001 input inventory and the control packet included control efficiency were greater than the existing 2001 control, the existing 2001 control would first be removed before applying the new control packet-based reduction.

During the development of the control packets, if it was determined that a source had a pollutant-based control efficiency higher than that intended for incorporation in the control packet, that strategy and associated emission reduction for that source was excluded from the final control packet.

Alternately, if a control was found to be incremental to the existing reductions already reported in the 2001 inventory to which the packets were to be applied, an incremental reduction was added to the source's reduction. An example of this case is represented by sources covered by the industrial boiler/process heater MACT. Where a determination was made that an individual source already had an existing control but was also impacted by the reductions incurred by the MACT, incremental reduction was applied to the existing control effectiveness.

Table 1 presents the list of non-EGU point source strategies included in the control packet files as well as the list of pollutants affected by each strategy and source of control information.



Details of sources and facilities affected by these strategies (such as states, counties, SCCs, and facility IDs) are included in the appendices of this report.

**Table 1. Non-EGU point source control packet strategies.**

| <b>Control Strategies<br/>(Grouped by Affected Pollutants or Standard)</b>   | <b>Pollutants Affected</b> | <b>Data Source</b>       |
|--|----------------------------|--------------------------|
| NOx SIP Call (Phase II)  | NOx                        | EPA, 2000<br>EPA, 2004b  |
| Medical Waste Incineration MACT  | NOx, PM, SO2               | EPA, 2000                |
| DOJ Settlements  | NOx, SO2                   | EPA, 2004b               |
| 1-hr ozone nonattainment SIPs  | NOx, VOC                   | Pechan, 2002             |
| RICE MACT  | NOx, VOC                   | EPA, 2004b               |
| Cement Manufacturing MACT<br>Secondary Aluminum MACT<br>Hazardous Waste Incineration MACT  | PM                         | EPA, 2000                |
| Industrial Boiler/Process Heater MACT<br>Lime Manufacturing MACT<br>Taconite Ore Processing MACT<br>Municipal Waste Combustors MACT  | PM, SO2                    | EPA, 2004a<br>EPA, 2004b |
| <b>Synthetic Organic Chemical Manufacturing Industry (SOCMI)</b><br><b>Hazardous Organic NESHAP (HON)</b><br>Acrylonitrile manufacture<br>Ethylene manufacture<br>Ethylene oxide manufacture<br>Phenol manufacture<br>Polyethylene manufacture<br>Polypropylene manufacture<br>SOCMI fugitives (equipment leak detection and repair)<br>SOCMI processes<br>SOCMI wastewater<br>Volatile organic liquid storage<br><br><b>Dry Cleaning</b><br>Perchloroethylene<br>Other  | VOC                        | EPA, 2000                |
| <b>Benzene National Emission Standards for Hazardous Air Pollutants (NESHAP)</b><br>By-product coke - excess-NH3 liquor tank<br>By-product coke - flushing-liquor circulation tank<br>By-product coke manufacture - other<br>By-product coke manufacture - oven charging<br>By-product coke mfg<br>By-product coke mfg. - equipment leaks<br>By-product coke mfg. - light oil dec/cond vents<br>By-product coke mfg. - light oil sump<br>By-product coke mfg. - naphthalene processing<br>By-product coke mfg. - tar bottom final cooler<br>By-product coke mfg. - tar storage<br>Coke oven by-product plants<br>Coke ovens - door and topside leaks | VOC                        | EPA, 2000                |
| <b>4-Year MACT (national)</b><br>Aircraft surface coating (aerospace)  | VOC                        | EPA, 2000                |



|   |     |           |
|---|-----|-----------|
| <p>Polymers and resins II<br/>Polymers and resins IV<br/>Shipbuilding and repair<br/>Styrene-butadiene rubber manufacture (polymers &amp; resins group I)<br/>TSDFs (offsite waste operations)<br/>Wood furniture surface coating</p> <p><b>Petroleum Refineries: other sources</b><br/>Fixed roof petroleum product tanks<br/>Fixed roof gasoline tanks<br/>External floating roof petroleum product tanks<br/>External floating roof gasoline tanks<br/>Petroleum refinery wastewater treatment<br/>Petroleum refinery fugitives<br/> <ul style="list-style-type: none"> <li>– Petroleum refineries - Blowdown w/o control</li> <li>– Vacuum distillation</li> </ul> </p> <p><b>Halogenated Solvent Cleaners</b><br/>Open top degreasing - halogenated<br/>In-line (conveyorized) degreasing - halogenated</p> <p><b>Printing</b><br/>Flexographic<br/>Gravure</p> <p><b>Gasoline Marketing</b><br/>Balanced loading<br/>Leaks<br/>Splash loading<br/>Storage<br/>Submerged loading<br/>Transit</p> |     |           |
| <p><b>7/10-Year MACT (national)</b><br/>Agricultural chemical production<br/>Alkyd resins<br/>Automobile surface coating<br/>Beverage can surface coating<br/>Chelating agents<br/>Explosives<br/>Fabric coating<br/>Fabric printing<br/>Flatwood surface coating<br/>Green tire spray<br/>Metal surface coating<br/>Nylon 6 production<br/>Oil and natural gas production<br/>Paint and varnish manufacture<br/>Paper surface coating<br/>Petroleum refineries - fluid catalytic cracking<br/>Pharmaceutical production<br/>Phthalate plasticizers<br/>Plastic parts surface coating<br/>Plywood/particle board<br/>Polyester resins</p>   | VOC | EPA, 2000 |



|  |     |                            |
|--|-----|----------------------------|
| Polyesters<br>Polymers and resins III<br>Polyvinyl chloride<br>Publicly-Owned Treatment Works (POTWs)<br>Pulp and paper production<br>Rayon production<br>Reinforced plastics<br>Rubber tire manufacture<br>Spandex production   |     |                            |
| <b>Post-2002 MACT</b><br>Asphalt Processing and Roofing MACT<br>Auto and Light-Duty Truck Manufacturing MACT<br>Coke Ovens MACT<br>Combustion Sources at Kraft, Soda and Sulfite Paper Mills MACT<br>Fabric Printing, Coating and Dyeing MACT<br>Iron & Steel Foundries MACT<br>Metal Can MACT<br>Metal Coil MACT<br>Metal Furniture MACT<br>Misc. Metal Parts and Products MACT<br>Municipal Solid Waste Landfills MACT<br>Paper and Other Web MACT<br>Plastic Parts MACT<br>Plywood & Composite Wood Products MACT<br>Wet Formed Fiberglass Production MACT<br>Wood Building Products MACT | VOC | EPA, 2004b<br>Pechan, 2004 |

## 5 AREA SOURCE CONTROL PACKETS

Area-source control packets were developed in SMOKE 2.0 input format as required by Tasks 2 and 6 of this assignment. Control strategies and implementation for stationary area sources were determined to be different for each of the years modeled under this assignment (2007, 2010, and 2015). For this reason, individual control packets were developed for stationary area sources and were applicable to each separate year.

Control strategies and their associated pollutant specific reductions were developed and included in these control packets under the assumption (and clarified by the WAM) that they would be applied to uncontrolled emissions of the affected source. In other words, if existing control factors of the same source-pollutant combination were included in the 2001 input inventory and the control packet included control factors were greater than the existing 2001 control, the existing 2001 control would first be removed before applying the new control packet-based reduction. Although included in the final control packets, these base year control factors are excluded from the Appendix of this report.

Table 2 presents the list of stationary area source strategies included in the control packet files as well as the list of pollutants affected by each strategy and source of control information. Details of categories affected by these strategies are included in Appendix B of this report.



**Table 2. Stationary area source control packet strategies.**

| <b>Control Strategies<br/>(Grouped by Affected Pollutants or Standard)</b>  | <b>Pollutants Affected</b> | <b>Data Source</b>      |
|---|----------------------------|-------------------------|
| 1-hr ozone nonattainment SIPs   | NO <sub>x</sub> , VOC      | Pechan, 2002            |
| <b>Federal Control Measures (National)</b><br>Consumer Solvents<br>Onboard Vapor Recovery Systems; and Stage II for Gasoline Service Stations   | VOC                        | EPA, 2000<br>EPA, 2003b |
| <b>Title III MACT (National)</b><br>Wood Furniture Surface Coating<br>Aerospace Surface Coating<br>Marine Vessel Surface Coating (Shipbuilding)<br>Halogenated Solvent Cleaners (Cold Cleaning)<br>Autobody Refinishing<br>Petroleum Refinery Fugitives<br>Synthetic Organic Chemical Manufacturing Industry (SOCMI)<br>Fugitives (Hazardous Organic NESHAP)<br>Motor Vehicle Surface Coating<br>Metal Product Surface Coating<br>Wood Product Surface Coating<br>Open Top & Conveyorized Degreasing<br>Publicly Owned Treatment Works (POTWs)<br>Metal Furniture & Appliances Surface Coating<br>Machinery, Railroad Surface Coating<br>Electronic Coating | VOC                        | EPA, 2000               |
| <b>Title I RACT</b><br>Petroleum Dry Cleaning<br>Paper Surface Coating  | VOC                        | EPA, 2000               |
| Residential Wood Combustion   | CO, PM, VOC                | EPA, 2000               |

## 6 DEVELOPMENT DISCUSSION AND SUGGESTED APPLICATIONS OF CONTROL PACKETS

The control packets developed for this assignment are intended to be used with the EPA's 2001 modeling platform emission inventories only. They have been created with the existing controls from these 2001 inventories accounted for and may not be applicable to other emission inventories. For this reason, it is recommended that these files be used exclusively in this manner.

All controls developed and included in the control packets were documented, reviewed, and approved by the WAM for use in this project. During the development of the packets, some of the strategies warranted additional review and summaries of these investigations are provided below. Additionally, where strategies are best applied using constraints or other mechanisms, those details are provided.



## **6.1 Point Source Control Packet**

As identified in an earlier section, the point source control packet as developed is applicable to each of the years it is indented to be applied; 2007, 2010, and 2015. Each of the strategies included was determined to be on-line by 2007 and therefore appropriate for insertion in the planned application. Following is some specific strategy discussions which aided in the development of the final packets.

### **6.1.1 MACT Application**

Each of the point source MACTs and associated emission reductions developed and included in the point source control packets were designed from Federal Register (FR) notices and EMAD staff discussion with the Emission Standards Division (ESD) staff. These MACTs are typically designed for application to very specific units however, because of the unavailability of parameters in the input emissions inventory; these MACTs were applied on a more general scale nationwide to all sources meeting application standards. These standards were usually SCC- or SIC-based. Since this was the case, every source meeting the standards of the MACT application received some emissions reduction which in turn was based on an emissions reduction value calculated from the individual MACT FR notice's resulting emission reduction impact estimates.

### **6.1.2 Department of Justice Settlements**

EMAD staff identification of facility-specific enforcement settlements were developed from information collected from the EPA's Office of Compliance and Enforcement's website. These strategies were site specific controls based on agreements between the facility and EPA.

### **6.1.3 Regional Transport NOx SIP Call**

Phase II of the Regional Transport NOx SIP Call (NOx SIP Call) was included in the control packets developed for this project. Using guidance provided by EMAD staff (EPA, 2004b) these strategies were included as originally promulgated in the rule's FR notice. Phase II was implemented by including an 82 percent NOx emission reduction on internal combustion engines previously not controlled under Phase I of the NOx SIP Call and the inclusion of NOx SIP Call controls to the fine grid portions of Alabama, Georgia, Michigan, and Missouri, and exclusion of controls in Wisconsin.

Since these controls are to be in effect by the year 2007, it is recommended that the resulting emissions calculated from NOx SIP Call affected sources be capped at 2007 levels and carried forward at that capped level for future years. In effect, emissions from NOx SIP Call impacted sources will not change in years after 2007 unless additional controls are warranted.

## **6.2 Area Source Control Packet**

In contrast to the point source control packet, individual files were generated for each year of planned application. This development accounted for the planned increase in rule penetration or effectiveness of specific control techniques included in the future year assumptions. For this reason, three control packets were developed and delivered under this assignment (see Appx. B).



### 6.2.1 MACT Application

Certain VOC MACTs were developed based on information provided by another EPA contractor (Pechan, 2004) working on emission forecasting estimates. The VOC control efficiencies provided represent the average reduction for the MACT standard to be applied to that specific source category. As developed, they will underestimate the emission reductions that would be expected for uncontrolled sources, and overestimate the reductions at already controlled sources. When applied to all sources across the country these values are designed to provide approximately the right emission reduction value. The efficiencies are designed to be applied to all affected sources regardless of their existing CE. The list provided was developed to capture the emission reductions from MACT standards not already affecting emissions in 2002.

For rule penetration, it was recommended that the MACT standard reductions only be applied to sources with VOC emissions of 25 tons per year or more, as an approximation of the sources that emit enough HAPs to meet the major stationary source definition. However, as this procedure is very difficult to implement for area source emissions, reductions were applied to all sources meeting the SCC- or SIC-based MACT definition.

### 6.2.2 Stage II Gasoline Distribution Controls

An EPA review of the base year emission inventory (2001) and previous base year emission data sets (1996, 1999 NEI and control parameter files for HDD) did not indicate that any State's 2001 emission inventory included additional control to account for the phase-in of Stage II gasoline distribution controls. For this reason, it was determined that the control efficiencies originally determined to be applicable under the HDD rulemaking were appropriate for application in this project.

### 6.2.3 Residential Wood Combustion

Since review of the documents developed to support the application of residential wood combustion controls determined that there is a very long lead time in the full implementation of these controls, current control factors were used as previously modeled in the HDD rule.

### 6.2.4 Exclusion of Some National Control Measures

Because the base year to which the control packets were to be applied fell beyond the application data of previously EPA-modeled control measures, some of these emission reduction strategies were excluded from the packet files. These exclusions were designed to prevent the double counting of emission reductions which may already be included in the base year (2001) estimates. For this project and for these reasons, national VOC emission reductions associated with architectural and industrial maintenance coatings were excluded from the control packet files. This did not prevent SIP-based strategies of the same emissions category to be applied.

It is assumed that other nationally-applied measures may already be included in the base year emission estimates; however, documentation is not available to support the additional exclusion of some of the previously modeled reduction strategies. In these cases, the universe of sources and emission reduction values remains unchanged from previous modeling exercises.



## **7 REFERENCES**

- EPA, 2000. *Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for The Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Emissions Analysis and Monitoring Division, Research Triangle Park, NC 27711, EPA420-R-00-020, October 2000.  
<http://www.epa.gov/otaq/models/hd2007/r00020.pdf>
- EPA, 2003a. *Procedures for Developing Base Year and Future Year Mass Emission Inventories for the Nonroad Diesel Engine Rulemaking*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711. EPA-454/R-03-009, April 2003.
- EPA, 2003b. *Draft 1999 National VOC Inventory for Gasoline Distribution*. April 2003.  
<http://www.epa.gov/ttn/chief/eiip/techreport/volume03/index.html>
- EPA, 2004a. *Technical Support Document for the Interstate Air Quality Rule Air Quality Modeling Analyses*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Emissions Analysis and Monitoring Division, Research Triangle Park, NC 27711, January 2004.
- EPA, 2004b. Personal communication with EPA-EMAD staff.
- Pechan, 2002. *VOC and NO<sub>x</sub> Control Measures Adopted by States and Nonattainment Areas for 1999 NEI Base Case Emissions Projection Calculations, Draft Report*, prepared for EPA Contract No. 68-D-00-283, Work Assignment No. 1-22, by E.H. Pechan & Associates, Inc., September, 2002
- Pechan, 2004. Personal communication with Jim Wilson.



## **APPENDICES**



## **A. POINT SOURCE CONTROL PACKET CONTENTS**



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                     |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---------------------------------|
| 0      | 20100102 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100102 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100105 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100105 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100106 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100106 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100107 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100107 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100202 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100202 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100702 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100702 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100705 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100706 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100707 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100802 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100802 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100805 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100806 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100807 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100807 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100902 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100902 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20100905 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20100906 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200102 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200102 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200104 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200104 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200105 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200106 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200106 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200107 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200107 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200202 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200202 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200204 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200204 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200205 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200205 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200206 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200207 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200207 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200252 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200252 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200253 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200253 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200254 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200254 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200301 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200301 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200305 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200306 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200307 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200501 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200501 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200505 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200506 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200507 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200702 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200702 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200706 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200706 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200710 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200711 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200712 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200902 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200902 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200905 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200906 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20200907 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20200907 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201001 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201001 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201002 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201002 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201005 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201006 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201007 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201007 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201012 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201014 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201602 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201602 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201605 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201606 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201607 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201702 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201702 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201705 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20201706 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201706 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20201707 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20300101 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20300101 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA             |
| 0      | 20300105 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |
| 0      | 20300106 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                              |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 0      | 20300107 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300107 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300201 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300201 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300204 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300204 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300205 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300206 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300207 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300207 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300301 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300301 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300305 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300306 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300307 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300307 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300702 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300702 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300705 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300706 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300707 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300802 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300802 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20300805 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300806 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20300807 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20301001 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20301001 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20301002 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20301005 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20301006 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per Jim Wilson list          |
| 0      | 20301007 | NOX  | -9   | 17.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 20301007 | VOC  | -9   | 13.00 | 100 | 100 | -9  |         |         |         |         | MACT: RICE; per EPA                      |
| 0      | 30100101 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM processes - industrial chem   |
| 0      | 30100180 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM fugitives - industrial organi |
| 0      | 30100199 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM processes - industrial chem   |
| 0      | 30100509 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM fugitives                     |
| 0      | 30100699 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM processes - gum and wood      |
| 0      | 30101012 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Explosives                         |
| 0      | 30101021 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Explosives                         |
| 0      | 30101022 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Explosives                         |
| 0      | 30101030 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Explosives                         |
| 0      | 30101099 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Explosives                         |
| 0      | 30101401 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101402 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101403 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101404 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101499 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101501 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101502 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101503 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101505 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101599 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture      |
| 0      | 30101602 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Chelating agents                   |
| 0      | 30101603 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Chelating agents                   |
| 0      | 30101801 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyvinylidene chloride            |
| 0      | 30101802 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polypropylene manufacture          |
| 0      | 30101803 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polypropylene manufacture          |
| 0      | 30101805 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins III            |
| 0      | 30101807 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101808 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101809 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101810 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101811 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101812 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101813 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101814 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101815 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101816 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101817 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins IV             |
| 0      | 30101818 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101819 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101820 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101821 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101822 | VOC  | -9   | 40.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins IV             |
| 0      | 30101827 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101837 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyester resins                   |
| 0      | 30101838 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Alkyd resins                       |
| 0      | 30101839 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Alkyd resins                       |
| 0      | 30101840 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Alkyd resins                       |
| 0      | 30101842 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM processes - plastics          |
| 0      | 30101847 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101849 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Alkyd resins                       |
| 0      | 30101852 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCM processes - plastics          |
| 0      | 30101860 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101861 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101863 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101864 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101865 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101866 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyethylene manufacture           |
| 0      | 30101870 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101872 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101880 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101881 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101882 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101885 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polymers and resins II             |
| 0      | 30101890 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                         |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 30101891 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30101892 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30101893 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30101894 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30101899 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30101901 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30101902 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30101904 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30102001 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102002 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102003 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102004 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102005 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102099 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30102401 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Nylon 6 production                  |
| 0      | 30102402 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Polyesters                          |
| 0      | 30102410 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Spandex production                  |
| 0      | 30102501 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rayon production                    |
| 0      | 30102601 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102602 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102608 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102609 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102612 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102613 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102614 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102615 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102616 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102617 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102625 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30102699 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Styrene-butadiene rubber manufactur |
| 0      | 30103101 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103102 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103103 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103104 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103105 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103199 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phthalate plasticizers              |
| 0      | 30103301 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - agricultural      |
| 0      | 30103311 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - agricultural      |
| 0      | 30103312 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - agricultural      |
| 0      | 30103399 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - agricultural      |
| 0      | 30103402 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103405 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30103406 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30103410 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103412 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103414 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103415 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103420 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103425 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30103499 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30105001 | VOC  | -9   | 35.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paint and varnish manufacture       |
| 0      | 30106001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106002 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106003 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106004 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106005 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106006 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106007 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106008 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106009 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106010 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106011 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106012 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - pharmaceutical    |
| 0      | 30106099 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - pharmaceutical    |
| 0      | 30109101 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30109105 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30109151 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30109152 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30109180 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30109199 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30110002 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30110003 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30110080 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30110099 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112002 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112005 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112006 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112007 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112011 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112013 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112014 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112099 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112480 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112501 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112502 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112509 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112510 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112512 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112514 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112520 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112524 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112525 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112526 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30112533 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |
| 0      | 30112534 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112535 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemic |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 30112540 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112541 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112547 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112550 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30112599 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112699 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112701 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112702 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112730 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30112780 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30113201 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113210 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113221 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113223 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113224 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113227 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113301 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113302 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113701 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113710 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30113799 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30114001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30115201 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30115301 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30115311 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30115322 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30115380 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30115601 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30115604 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30115701 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30115704 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30115780 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - cyclic crudes     |
| 0      | 30115802 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30115803 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30116701 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30116703 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30116704 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30116780 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30116799 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30116901 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30116906 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30116980 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - cyclic crudes     |
| 0      | 30117401 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene oxide manufacture          |
| 0      | 30117421 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene oxide manufacture          |
| 0      | 30117480 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene oxide manufacture          |
| 0      | 30117601 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30117617 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30117680 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30118101 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30118102 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30118103 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30118110 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30118180 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - cyclic crudes     |
| 0      | 30119001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30119014 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30119080 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - cyclic crudes     |
| 0      | 30119501 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119580 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30119701 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene manufacture                |
| 0      | 30119705 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene manufacture                |
| 0      | 30119707 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119708 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119709 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119710 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119741 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119742 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119743 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119744 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119745 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119749 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30119799 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Ethylene manufacture                |
| 0      | 30120201 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phenol manufacture                  |
| 0      | 30120202 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phenol manufacture                  |
| 0      | 30120204 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30120205 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phenol manufacture                  |
| 0      | 30120206 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Phenol manufacture                  |
| 0      | 30120280 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30120501 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30120502 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30120521 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30120530 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30120540 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30120545 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30120580 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30120601 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30120603 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - cyclic crudes     |
| 0      | 30120680 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - cyclic crudes     |
| 0      | 30121001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30121002 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30121101 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30125001 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30125002 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30125003 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi - process vents               |
| 0      | 30125004 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30125101 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |
| 0      | 30125180 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi fugitives - industrial organi |
| 0      | 30125301 | VOC  | -9   | 79.00 | 100 | 100 | -9  |         |         |         |         | MACT: SOCMi processes - industrial chemi  |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC  | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|-------|------|-------|-----|-----|------|---------|---------|---------|---------|---|
| 0      | 30125302 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 - process vents               |
| 0      | 30125306 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 - process vents               |
| 0      | 30125315 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125325 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125326 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 - process vents               |
| 0      | 30125380 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30125401 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125405 | VOC   | -9   | 98.00 | 100 | 100 | -9   |         |         |         |         | MACT: Acrylonitrile manufacture           |
| 0      | 30125406 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125409 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30125413 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125415 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125420 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30125801 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125802 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125805 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125810 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125815 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125817 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125880 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30125899 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30130101 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130102 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130103 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130104 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130105 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130106 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 - process vents               |
| 0      | 30130107 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130108 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - cyclic crudes     |
| 0      | 30130180 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - cyclic crudes     |
| 0      | 30130301 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30130380 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30130402 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30130480 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30130501 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30130502 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - industrial chemic |
| 0      | 30130580 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives - industrial organi |
| 0      | 30180001 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30180002 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30180003 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30180006 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30181001 | VOC   | -9   | 79.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 processes - crudes & agricult |
| 0      | 30183001 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30188801 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30188802 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30188803 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30188804 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30188805 | VOC   | -9   | 60.00 | 100 | 100 | -9   |         |         |         |         | MACT: SOCM1 fugitives                     |
| 0      | 30300302 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - oven  |
| 0      | 30300303 | VOC   | -9   | 43.00 | 100 | 100 | -9   |         |         |         |         | MACT: Coke Ovens                          |
| 0      | 30300304 | VOC   | -9   | 43.00 | 100 | 100 | -9   |         |         |         |         | MACT: Coke Ovens                          |
| 0      | 30300306 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - other |
| 0      | 30300308 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: Coke ovens - door and topside leaks |
| 0      | 30300313 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - other |
| 0      | 30300314 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: Coke ovens - door and topside leaks |
| 0      | 30300315 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: Coke oven by-product plants         |
| 0      | 30300316 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - other |
| 0      | 30300334 | VOC   | -9   | 95.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke - flushing-liquor c |
| 0      | 30300399 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - other |
| 0      | 30300401 | VOC   | -9   | 94.00 | 100 | 100 | -9   |         |         |         |         | MACT: By-product coke manufacture - other |
| 0      | 30400101 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400101 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400102 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400102 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400103 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400103 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400104 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400104 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400105 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400105 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400106 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400106 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400107 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400107 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400108 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400108 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400109 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400109 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400110 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400110 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400111 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400111 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400112 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400112 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400113 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400113 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400114 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400114 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400120 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400120 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400150 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400150 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400199 | PM10  | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400199 | PM2.5 | -9   | 90.00 | 100 | 100 | -9   |         |         |         |         | MACT: Secondary Aluminum                  |
| 0      | 30400301 | VOC   | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries              |
| 0      | 30400302 | VOC   | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries              |
| 0      | 30400303 | VOC   | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries              |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC  | PLANTID | POINTID | STACKID | SEGMENT | Description                        |
|--------|----------|------|------|-------|-----|-----|------|---------|---------|---------|---------|------------------------------------|
| 0      | 30400304 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400305 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400310 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400314 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400315 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400316 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400317 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400318 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400319 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400320 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400321 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400322 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400325 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400330 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400331 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400332 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400333 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400340 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400341 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400342 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400350 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400351 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400352 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400353 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400354 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400355 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400356 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400357 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400358 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400360 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400370 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400371 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400398 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400399 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400701 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400702 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400703 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400704 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400705 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400706 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400707 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400708 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400709 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400710 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400711 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400712 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400713 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400714 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400715 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400716 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400717 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400718 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400720 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400721 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400722 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400723 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400724 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400725 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400726 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400730 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400731 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400732 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400733 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400735 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400736 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400737 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400739 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400740 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400741 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400742 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400743 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400744 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400745 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400760 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400765 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400768 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400770 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400775 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400780 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400785 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30400799 | VOC  | -9   | 40.00 | 100 | 100 | 3320 |         |         |         |         | MACT: Iron & Steel Foundries       |
| 0      | 30500101 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500102 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500103 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500104 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500105 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500106 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500107 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500108 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500110 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500111 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500112 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500113 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500114 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500115 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500116 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |
| 0      | 30500117 | VOC  | -9   | 29.00 | 100 | 100 | -9   |         |         |         |         | MACT: Asphalt Processing & Roofing |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 30500118 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500119 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500120 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500121 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500130 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500131 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500132 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500133 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500134 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500135 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500140 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500141 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500142 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500143 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500144 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500145 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500146 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500147 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500150 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500151 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500152 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500153 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500154 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500198 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500199 | VOC   | -9   | 29.00 | 100 | 100 | -9  |         |         |         |         | MACT: Asphalt Processing & Roofing        |
| 0      | 30500606 | PM10  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                          |
| 0      | 30500606 | PM2_5 | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                          |
| 0      | 30500706 | PM10  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                          |
| 0      | 30500706 | PM2_5 | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                          |
| 0      | 30501201 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501202 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501203 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501204 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501205 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501206 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501207 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501208 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501209 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501211 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501212 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501213 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501214 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501215 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501221 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501222 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501223 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501224 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30501299 | VOC   | -9   | 74.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wet Formed Fiberglass Production    |
| 0      | 30600201 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - FCC          |
| 0      | 30600202 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - FCC          |
| 0      | 30600301 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - FCC          |
| 0      | 30600402 | VOC   | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - Blowdown w/o |
| 0      | 30600503 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600504 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600505 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600506 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600508 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600514 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600516 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600517 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600519 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600520 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery wastewater treat |
| 0      | 30600602 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery vacuum distillat |
| 0      | 30600603 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery vacuum distillat |
| 0      | 30600801 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600802 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600803 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600804 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600805 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600806 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600807 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600811 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600812 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600813 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600814 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600815 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600816 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600817 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600818 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600819 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600820 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30600821 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600822 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |
| 0      | 30600901 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30600903 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30600904 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30600905 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30600999 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30601001 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30601101 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30601201 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30601401 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30609901 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30609903 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30609904 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30610001 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 30688801 | VOC   | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives        |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 30688802 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives                              |
| 0      | 30688803 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives                              |
| 0      | 30688804 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives                              |
| 0      | 30688805 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refinery fugitives                              |
| 0      | 30700101 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700102 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700103 | VOC  | -9   | 12.00 | 100 | 100 | -9  |         |         |         |         | MACT: Combustion Sources at Kraft, Soda and Sulfite Paper Mills |
| 0      | 30700104 | VOC  | -9   | 12.00 | 100 | 100 | -9  |         |         |         |         | MACT: Combustion Sources at Kraft, Soda and Sulfite Paper Mills |
| 0      | 30700105 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700106 | VOC  | -9   | 12.00 | 100 | 100 | -9  |         |         |         |         | MACT: Combustion Sources at Kraft, Soda and Sulfite Paper Mills |
| 0      | 30700107 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700108 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700109 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700110 | VOC  | -9   | 12.00 | 100 | 100 | -9  |         |         |         |         | MACT: Combustion Sources at Kraft, Soda and Sulfite Paper Mills |
| 0      | 30700199 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700203 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700214 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700215 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700221 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700222 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700223 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700234 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700299 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700301 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700303 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700401 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700402 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Pulp and Paper Production                                 |
| 0      | 30700602 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700604 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700606 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700610 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700611 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700621 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700628 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700629 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700651 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700661 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700701 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700702 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700703 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700704 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700705 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700706 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700707 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700708 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700709 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700710 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700711 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700712 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700713 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700714 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700715 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700716 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700717 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700718 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700720 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700725 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700727 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700730 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700734 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700735 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700736 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700737 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700740 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700744 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700746 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700747 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700750 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700752 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700753 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700756 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700757 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700760 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700762 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700763 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700766 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700767 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700769 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700770 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700771 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700780 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700781 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700783 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700785 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700788 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700789 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700790 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700791 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700792 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700793 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700798 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700799 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700921 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700923 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700925 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700927 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |
| 0      | 30700931 | VOC  | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products                            |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                             |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 30700932 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700933 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700935 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700936 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700937 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700939 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700940 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700950 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700960 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30700971 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701001 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701008 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701009 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701010 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701015 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701020 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701030 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701040 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701053 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701054 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701055 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701057 | VOC   | -9   | 46.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood & Composite Wood Products    |
| 0      | 30701199 | VOC   | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web               |
| 0      | 30800101 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800102 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800103 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800104 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800105 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800106 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Green tire spray                  |
| 0      | 30800107 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800108 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800109 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800120 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800121 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800122 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800123 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Green tire spray                  |
| 0      | 30800197 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800198 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800199 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800501 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Rubber tire manufacture           |
| 0      | 30800699 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800701 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800702 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800703 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800704 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800705 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800720 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800721 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800722 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800723 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800724 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800799 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30800901 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Reinforced plastics               |
| 0      | 30901601 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric coating                    |
| 0      | 31000101 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000102 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000103 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000104 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000105 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000199 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000201 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000202 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000203 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000204 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000205 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000206 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000207 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31000299 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31088801 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31088802 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31088803 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31088804 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 31088805 | VOC   | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Oil and natural gas               |
| 0      | 39000201 | PM10  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                        |
| 0      | 39000201 | PM2.5 | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Cement Mfg                        |
| 0      | 40100101 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - perchloroethylene  |
| 0      | 40100102 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - stoddard           |
| 0      | 40100103 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - perchloroethylene  |
| 0      | 40100104 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - stoddard           |
| 0      | 40100105 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - other              |
| 0      | 40100198 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Dry cleaning - other              |
| 0      | 40100201 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing               |
| 0      | 40100202 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated |
| 0      | 40100203 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated |
| 0      | 40100204 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated |
| 0      | 40100205 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated |
| 0      | 40100206 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing               |
| 0      | 40100207 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated |
| 0      | 40100209 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing               |
| 0      | 40100221 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                |
| 0      | 40100222 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing - halogenated  |
| 0      | 40100223 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing - halogenated  |
| 0      | 40100224 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing - halogenated  |
| 0      | 40100225 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing - halogenated  |
| 0      | 40100235 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                |
| 0      | 40100236 | VOC   | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                |
| 0      | 40100251 | VOC   | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing               |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 40100252 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated   |
| 0      | 40100253 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated   |
| 0      | 40100254 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated   |
| 0      | 40100255 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated   |
| 0      | 40100256 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40100257 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing - halogenated   |
| 0      | 40100258 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40100259 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40100295 | VOC  | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                  |
| 0      | 40100296 | VOC  | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                  |
| 0      | 40100297 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40100298 | VOC  | -9   | 39.00 | 100 | 100 | -9  |         |         |         |         | MACT: In-line degreasing                  |
| 0      | 40100299 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40100306 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Open top degreasing                 |
| 0      | 40200301 | VOC  | -9   | 57.00 | 100 | 100 | -9  |         |         |         |         | MACT: Beverage can surface coating        |
| 0      | 40200310 | VOC  | -9   | 57.00 | 100 | 100 | -9  |         |         |         |         | MACT: Beverage can surface coating        |
| 0      | 40200410 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Flatwood surface coating            |
| 0      | 40200701 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper surface coating               |
| 0      | 40200706 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper surface coating               |
| 0      | 40200707 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper surface coating               |
| 0      | 40200710 | VOC  | -9   | 78.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper surface coating               |
| 0      | 40201101 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201103 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201104 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201105 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201111 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201112 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201113 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201114 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201115 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201116 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201121 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201122 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201197 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201198 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201199 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201201 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201210 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fabric Printing, Coating and Dyeing |
| 0      | 40201301 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201303 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201304 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201305 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201310 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201320 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201330 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201399 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Paper and Other Web                 |
| 0      | 40201401 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201402 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201403 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201404 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201405 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201406 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201431 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201432 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201433 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201435 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201499 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201501 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201502 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201503 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201505 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201531 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201599 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating               |
| 0      | 40201702 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201703 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201704 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201705 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201706 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201721 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201722 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201723 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201724 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201725 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201726 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201727 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201728 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201729 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201731 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201732 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201733 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201734 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201735 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201736 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201737 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201738 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201739 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201799 | VOC  | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Can                           |
| 0      | 40201801 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201802 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201803 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201804 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201805 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201806 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201807 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201899 | VOC  | -9   | 53.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Coal                          |
| 0      | 40201901 | VOC  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood furniture surface coating      |
| 0      | 40201903 | VOC  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood furniture surface coating      |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                          |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|--------------------------------------|
| 0      | 40201904 | VOC  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood furniture surface coating |
| 0      | 40201999 | VOC  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood furniture surface coating |
| 0      | 40202001 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202002 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202003 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202004 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202005 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202010 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202011 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202012 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202013 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202014 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202015 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202020 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202021 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202022 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202023 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202024 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202025 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202031 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202032 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202033 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202034 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202035 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202036 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202037 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202038 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202039 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202099 | VOC  | -9   | 73.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal Furniture                |
| 0      | 40202101 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202103 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202104 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202105 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202106 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202107 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202108 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202109 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202110 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202111 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202117 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202118 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202131 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202132 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202133 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202140 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202199 | VOC  | -9   | 63.00 | 100 | 100 | -9  |         |         |         |         | MACT: Wood Building Products         |
| 0      | 40202201 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202202 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202203 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202204 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202205 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202206 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202207 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202208 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202209 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202210 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202211 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202212 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202213 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202214 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202215 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202220 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202229 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202230 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202239 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202240 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202249 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202250 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202259 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202270 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202280 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202299 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Plastic Parts                  |
| 0      | 40202301 | VOC  | -9   | 24.00 | 100 | 100 | -9  |         |         |         |         | MACT: Shipbuilding and repair        |
| 0      | 40202302 | VOC  | -9   | 24.00 | 100 | 100 | -9  |         |         |         |         | MACT: Shipbuilding and repair        |
| 0      | 40202305 | VOC  | -9   | 24.00 | 100 | 100 | -9  |         |         |         |         | MACT: Shipbuilding and repair        |
| 0      | 40202306 | VOC  | -9   | 24.00 | 100 | 100 | -9  |         |         |         |         | MACT: Shipbuilding and repair        |
| 0      | 40202399 | VOC  | -9   | 24.00 | 100 | 100 | -9  |         |         |         |         | MACT: Shipbuilding and repair        |
| 0      | 40202401 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202402 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202403 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202405 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202406 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202499 | VOC  | -9   | 60.00 | 100 | 100 | -9  |         |         |         |         | MACT: Aircraft surface coating       |
| 0      | 40202501 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202502 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202503 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202504 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202505 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202510 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202511 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202512 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202515 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202520 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202521 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202522 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202523 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |
| 0      | 40202524 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products   |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                        |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|------------------------------------|
| 0      | 40202525 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202531 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202532 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202533 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202534 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202535 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202536 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202537 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202542 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202543 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202544 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202545 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202546 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202599 | VOC  | -9   | 48.00 | 100 | 100 | -9  |         |         |         |         | MACT: Misc. Metal Parts & Products |
| 0      | 40202601 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202602 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202603 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202605 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202606 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202607 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40202699 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: Metal surface coating        |
| 0      | 40300101 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40300102 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300103 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40300104 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300105 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300106 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300107 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300108 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300109 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300111 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300112 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300115 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300116 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300150 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300151 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300152 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300153 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300154 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300156 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300157 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300160 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300161 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300198 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300199 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40300201 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40300202 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40300203 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300204 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300205 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300207 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300208 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300209 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300212 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300216 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300299 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40300302 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301001 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301002 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301003 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301004 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301005 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301006 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301007 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301008 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301009 | VOC  | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof gasoline tanks    |
| 0      | 40301010 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301011 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301012 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301013 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301014 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301015 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301016 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301017 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301018 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301019 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301020 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301021 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301068 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301078 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301097 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301098 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301099 | VOC  | -9   | 98.00 | 100 | 100 | -9  |         |         |         |         | MACT: Fixed roof crude tanks       |
| 0      | 40301101 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301102 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301103 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301104 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301105 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301106 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301107 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301108 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks           |
| 0      | 40301109 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301110 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301111 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301112 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301113 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |
| 0      | 40301114 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks              |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 40301115 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301116 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301117 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301118 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301119 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301120 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301130 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301131 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks                  |
| 0      | 40301132 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301133 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301134 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301135 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301197 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301198 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301199 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301201 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks                  |
| 0      | 40301202 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks                  |
| 0      | 40301203 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR gasoline tanks                  |
| 0      | 40301204 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301205 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301206 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40301299 | VOC  | -9   | 90.00 | 100 | 100 | -9  |         |         |         |         | MACT: EFR crude tanks                     |
| 0      | 40388801 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40388802 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40388803 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40388804 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40388805 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40399999 | VOC  | -9   | 72.00 | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum refineries - other        |
| 0      | 40400101 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400102 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400103 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400104 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400105 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400106 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400107 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400108 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400109 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400110 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400111 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400112 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400113 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400114 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400115 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400116 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof withdrawa |
| 0      | 40400117 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof withdrawa |
| 0      | 40400118 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400119 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400120 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400130 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400131 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400140 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400141 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400150 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400151 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400152 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400153 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400154 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400199 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400201 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400202 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400203 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof breathing    |
| 0      | 40400204 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400205 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400206 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - fixed roof working      |
| 0      | 40400207 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400208 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400209 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - floating roof standing  |
| 0      | 40400210 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400211 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400212 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - variable vapor space fi |
| 0      | 40400230 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400231 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400240 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400241 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. external floating roof    |
| 0      | 40400250 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400251 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400254 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - miscellaneous losses    |
| 0      | 40400301 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Oil field - fixed roof breathing    |
| 0      | 40400302 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Oil field - fixed roof working      |
| 0      | 40400303 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Oil field - floating roof           |
| 0      | 40400304 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Oil field - floating roof           |
| 0      | 40400305 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Oil field - floating roof           |
| 0      | 40400401 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400402 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400403 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400404 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400405 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400406 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400407 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400408 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400409 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400410 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400411 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400412 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400413 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |
| 0      | 40400414 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40400497 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank breath |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 40400498 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - underground tank workin |
| 0      | 40500301 | VOC  | -9   | 32.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - flexographic             |
| 0      | 40500311 | VOC  | -9   | 32.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - flexographic             |
| 0      | 40500312 | VOC  | -9   | 32.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - flexographic             |
| 0      | 40500314 | VOC  | -9   | 32.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - flexographic             |
| 0      | 40500501 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500502 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500511 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500512 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500513 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500514 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500598 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40500599 | VOC  | -9   | 27.00 | 100 | 100 | -9  |         |         |         |         | MACT: Printing - gravure                  |
| 0      | 40600101 | VOC  | -9   | 99.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - splash loading          |
| 0      | 40600126 | VOC  | -9   | 99.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - submerged loading       |
| 0      | 40600130 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600131 | VOC  | -9   | 99.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - submerged loading       |
| 0      | 40600132 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600133 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600134 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600135 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600136 | VOC  | -9   | 99.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - splash loading          |
| 0      | 40600137 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - splash loading  |
| 0      | 40600138 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - splash loading  |
| 0      | 40600139 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - splash loading  |
| 0      | 40600140 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - splash loading  |
| 0      | 40600141 | VOC  | -9   | 87.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - balanced loading        |
| 0      | 40600142 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - balanced loadin |
| 0      | 40600143 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - balanced loadin |
| 0      | 40600144 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - balanced loadin |
| 0      | 40600145 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - balanced loadin |
| 0      | 40600146 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - balanced loadin |
| 0      | 40600147 | VOC  | -9   | 99.00 | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - submerged loading       |
| 0      | 40600148 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600149 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600160 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600161 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum product - submerged loadi |
| 0      | 40600162 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - transit losses          |
| 0      | 40600163 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Gas mark. - transit losses          |
| 0      | 40600197 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum mark. - not classified    |
| 0      | 40600198 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum mark. - not classified    |
| 0      | 40600199 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Petroleum mark. - not classified    |
| 0      | 40600231 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600232 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600233 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600234 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600235 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600236 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600237 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600238 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600239 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600240 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600242 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600243 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600244 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600245 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600246 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600248 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600249 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600250 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600251 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600253 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600254 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600257 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600259 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600298 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600299 | VOC  | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading: petroleum li |
| 0      | 40600301 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Stage I - splash unloading          |
| 0      | 40600302 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Stage I - submerged                 |
| 0      | 40600306 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Stage I - balanced/submerged        |
| 0      | 40600399 | VOC  | -9   | 5.00  | 100 | 100 | -9  |         |         |         |         | MACT: Stage I - balanced/submerged        |
| 0      | 40700401 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700402 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700497 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700498 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700801 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700802 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700803 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700805 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700806 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700807 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700808 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700809 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700810 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700811 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700812 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700813 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700814 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700815 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700816 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700817 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700818 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700897 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40700898 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40701605 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40701606 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40701608 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |



| Region | SCC      | PLLT | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description       |
|--------|----------|------|------|-------|-----|-----|-----|---------|---------|---------|---------|-------------------|
| 0      | 40701611 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40701612 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40701613 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40701614 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40701697 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40701698 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40702097 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40702098 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703201 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703202 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703203 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703204 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703205 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703206 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703297 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703298 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703601 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703602 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703603 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703605 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703606 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703608 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703609 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703610 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703613 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703614 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703615 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703616 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703617 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703618 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703619 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703620 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703622 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703623 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703624 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703697 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40703698 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704001 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704002 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704003 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704004 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704007 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704008 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704009 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704097 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704098 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704401 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704402 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704403 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704404 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704405 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704406 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704407 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704408 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704411 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704412 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704414 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704416 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704417 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704418 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704419 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704420 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704421 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704422 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704497 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704498 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704801 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704802 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704897 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40704898 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705203 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705208 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705210 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705213 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705216 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705297 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705298 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705603 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705604 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705605 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705606 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705607 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705609 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705610 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705697 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40705698 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706005 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706006 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706007 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706008 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706009 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706010 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706011 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706012 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706013 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706015 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |
| 0      | 40706017 | VOC  | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                               |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 40706018 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706019 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706020 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706021 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706022 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706023 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706024 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706097 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706098 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706401 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706402 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706497 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706801 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706802 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706814 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706897 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40706898 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40707601 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40707602 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40707697 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40707698 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708097 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708098 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708401 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708404 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708497 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40708498 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40715809 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717205 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717206 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717207 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717208 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717209 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717211 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717297 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717298 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717601 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717602 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717603 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717604 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717697 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40717698 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40718097 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40720801 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40720803 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40720804 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40720897 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40720898 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722001 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722003 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722005 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722009 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722010 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722097 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722098 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722801 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722802 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722803 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722804 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722805 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722806 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722897 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40722898 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40723297 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40723298 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40781602 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40781604 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40781605 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40781699 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40782001 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40782003 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40782006 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40782009 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40782099 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40783203 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40784899 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40786004 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40786099 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40787299 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40799997 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40799998 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | MACT: VOL storage                         |
| 0      | 40899997 | VOC   | -9   | 80.00 | 100 | 100 | -9  |         |         |         |         | MACT: Marine vessel loading; petroleum li |
| 0      | 50100101 | PM10  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100101 | PM2_5 | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100101 | SO2   | -9   | 50.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100102 | PM10  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100102 | PM2_5 | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100102 | SO2   | -9   | 50.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100103 | PM10  | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100103 | PM2_5 | -9   | 30.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100103 | SO2   | -9   | 50.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Waste Combustors          |
| 0      | 50100401 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills     |
| 0      | 50100402 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills     |
| 0      | 50100403 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills     |
| 0      | 50100404 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills     |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 0      | 50100405 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100406 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100410 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100411 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100412 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100420 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100421 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100422 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100423 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100430 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100431 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100432 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100433 | VOC   | -9   | 75.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal Solid Waste Landfills       |
| 0      | 50100701 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Publicly owned treatment works        |
| 0      | 50100702 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Publicly owned treatment works        |
| 0      | 50100703 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Publicly owned treatment works        |
| 0      | 50100704 | VOC   | -9   | 70.00 | 100 | 100 | -9  |         |         |         |         | MACT: Publicly owned treatment works        |
| 0      | 50200505 | NOX   | -9   | 20.00 | 100 | 100 | -9  |         |         |         |         | MACT: Medical Waste Incinerators            |
| 0      | 50200505 | PM10  | -9   | 88.00 | 100 | 100 | -9  |         |         |         |         | MACT: Medical Waste Incinerators            |
| 0      | 50200505 | PM2.5 | -9   | 88.00 | 100 | 100 | -9  |         |         |         |         | MACT: Medical Waste Incinerators            |
| 0      | 50200505 | SO2   | -9   | 20.00 | 100 | 100 | -9  |         |         |         |         | MACT: Medical Waste Incinerators            |
| 0      | 50200601 | VOC   | -9   | 82.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal landfills                   |
| 0      | 50200602 | VOC   | -9   | 82.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal landfills                   |
| 0      | 50300601 | VOC   | -9   | 82.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal landfills                   |
| 0      | 50300602 | VOC   | -9   | 82.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal landfills                   |
| 0      | 50300603 | VOC   | -9   | 82.00 | 100 | 100 | -9  |         |         |         |         | MACT: Municipal landfills                   |
| 0      | 50300701 | VOC   | -9   | 82.00 | 95  | 100 | -9  |         |         |         |         | MACT: Waste disposal - incineration/burning |
| 0      | 50300702 | VOC   | -9   | 82.00 | 95  | 100 | -9  |         |         |         |         | MACT: Waste disposal - incineration/burning |
| 0      | 50300801 | PM10  | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300801 | PM2.5 | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300801 | VOC   | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300810 | PM10  | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300810 | PM2.5 | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300810 | VOC   | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300820 | PM10  | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300820 | PM2.5 | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300820 | VOC   | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300830 | PM10  | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300830 | PM2.5 | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300830 | VOC   | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300899 | PM10  | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300899 | PM2.5 | -9   | 36.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 0      | 50300899 | VOC   | -9   | 96.00 | 100 | 100 | -9  |         |         |         |         | MACT: TSDFs                                 |
| 1001   | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 013     |         |         | NOX SIP Call                                |
| 1001   | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 014     |         |         | NOX SIP Call                                |
| 1001   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1001   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1001   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1003   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1003   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1003   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S008    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1005   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0011    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0011    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S011    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0011    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0011    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S011    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1007   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S011    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1009   | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing                    |
| 1009   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1009   | -9       | PM2.5 | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing                    |
| 1009   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1009   | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing                    |
| 1009   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1011   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1011   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1011   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 018     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 018     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1013   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 018     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0037    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1015   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 1015   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0037    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1015   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0037    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S005    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1021   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S006    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 025     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 026     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 025     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 026     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 025     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 026     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1023   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S012    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S012    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1025   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S012    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008    | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008    | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1027   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 1031   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1031   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 002     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 003     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 005     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 006     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 007     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 008     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 009     |         |         | NOX SIP Call                           |
| 1033   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0041    | 001     |         |         | NOX SIP Call                           |
| 1033   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1033   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1035   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1039   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1043   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1043   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1043   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 010     |         |         | NOX SIP Call                           |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 012     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004      | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003      | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004      | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S005      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004      | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1047   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1049   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0020      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1049   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0020      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1049   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1051   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0006      | 006     |         |         | NOX SIP Call                           |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1055   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008      | 046     |         |         | NOX SIP Call                           |
| 1055   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008      | 047     |         |         | NOX SIP Call                           |
| 1055   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008      | 049     |         |         | NOX SIP Call                           |
| 1057   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1057   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1057   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1065   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1067   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1067   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1067   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1067   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1067   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1069   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1069   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1069   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S005      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1071   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0014      | 001     |         |         | NOX SIP Call                           |
| 1071   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0014      | 006     |         |         | NOX SIP Call                           |
| 1071   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1071   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1071   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730001 | 019     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730001 | 020     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730260 | 007     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 010730290 | 105     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730355 | 029     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730355 | 030     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730355 | 031     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730355 | 032     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730370 | 209     |         |         | NOX SIP Call                           |
| 1073   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 010730370 | 210     |         |         | NOX SIP Call                           |
| 1073   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 010730010 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 010730010 | 102     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 010730010 | 107     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 010730010 | 108     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 010730063 | 003     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 1073   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 010730233 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 010730248 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM10  | -9   | 96.84 | 100 | 100 | -9  | 010730269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 010730010 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 010730010 | 102     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 010730010 | 107     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 010730010 | 108     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 010730063 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 010730233 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 010730248 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 010730269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730010 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730010 | 102     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730010 | 107     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730010 | 108     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730063 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730233 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730248 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1073   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 010730269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1075   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1079   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1081   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S003      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008      | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008      | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1083   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008      | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1089   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1089   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1089   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001      | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002      | 042     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S003      | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006      | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002      | 042     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S003      | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1091   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006      | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1095   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1095   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1095   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2003      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2005      | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2016      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2018      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2021      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2021      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2003      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2005      | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2016      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2018      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2021      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2021      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2003      | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2005      | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2016      | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2018    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2021    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1097   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2021    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S008    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S006    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1099   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S014    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S014    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 1101   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S014    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 010     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 015     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 019     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 022     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 023     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 024     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 026     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 013     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 014     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 015     |         |         | NOX SIP Call                           |
| 1103   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0039    | 020     |         |         | NOX SIP Call                           |
| 1103   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 1103   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 1107   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S006    | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1107   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S006    | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1107   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S006    | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 1109   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1109   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1109   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 002     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 003     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 004     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 005     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 006     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 007     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 008     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 009     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 010     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 011     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 012     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 013     |         |         | NOX SIP Call                           |
| 1111   | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 015     |         |         | NOX SIP Call                           |
| 1111   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0004    | 004     |         |         | NOX SIP Call                           |
| 1113   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 1113   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0008    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0017    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0019    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0032    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0039    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 022     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 024     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0008    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0017    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0019    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0032    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0039    |         |         |         | MACT: Lime Manufacturing               |
| 1117   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 022     |         |         | MACT: Industrial Boiler/Process Heater |
| 1117   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 023     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 1117   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 024     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1117   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing                    |
| 1117   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0008    |         |         |         | MACT: Lime Manufacturing                    |
| 1117   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0017    |         |         |         | MACT: Lime Manufacturing                    |
| 1117   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0019    |         |         |         | MACT: Lime Manufacturing                    |
| 1117   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0032    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1117   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0039    |         |         |         | MACT: Lime Manufacturing                    |
| 1117   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 022     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1117   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 023     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1117   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 024     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1119   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1119   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1119   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 007     |         |         | NOX SIP Call                                |
| 1121   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 008     |         |         | NOX SIP Call                                |
| 1121   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 009     |         |         | NOX SIP Call                                |
| 1121   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 010     |         |         | NOX SIP Call                                |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S002    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S002    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1121   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S002    | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1123   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 001     |         |         | NOX SIP Call                                |
| 1125   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S010    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S012    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S013    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S010    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S012    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S013    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S010    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S012    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S013    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1125   | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0034    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 1127   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1127   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1127   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1129   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1129   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1129   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | S001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1131   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S001    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | S008    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 1133   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | S008    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 81.55 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 58.50 | 100 | 100 | -9  | 0004    | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0004       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0007       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 2090   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010       | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010       | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010       | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010       | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 2122   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 4003   | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0400300176 |         |         |         | MACT: Lime Manufacturing               |
| 4003   | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0400300176 |         |         |         | MACT: Lime Manufacturing               |
| 4003   | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0400300176 |         |         |         | MACT: Lime Manufacturing               |
| 4005   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0409       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 4017   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0401700424 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 4017   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0401700424 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 4017   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0401700424 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 5011   | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0004       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5019   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5021   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0067       | 130     |         |         | MACT: Industrial Boiler/Process Heater |
| 5027   | -9  | SO2   | -9   | 95.20 | 100 | 100 | -9  | 0028       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 02A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 02D     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 03A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 04A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 02A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 02D     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 03A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 04A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 0001       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 02A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 02D     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 0001       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 03A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5029   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 04A     |         |         | MACT: Industrial Boiler/Process Heater |
| 5039   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5039   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5039   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 140     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 141     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5053   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008       | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 5059   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0015       | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 5059   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0015       | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 5059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015       | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 0016       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0016       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 0016       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0016       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0016       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 5061   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0016       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0036       | 072     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0036       | 072     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009       | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 5063   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0036       | 072     |         |         | MACT: Industrial Boiler/Process Heater |
| 5069   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0016       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5069   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0016       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5069   | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0016       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5081   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 5081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 5081   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002       | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 5081   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 010     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 5081   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 050     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5099   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5099   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5099   | -9       | SO2   | -9   | 96.16 | 100 | 100 | -9  | 0001       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM10  | -9   | 96.00 | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0035       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0035       | 020     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0035       | 030     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM2_5 | -9   | 95.26 | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0035       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0035       | 020     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0035       | 030     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0035       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0035       | 020     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5103   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0035       | 030     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5109   | -9       | PM10  | -9   | 99.53 | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5109   | -9       | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5109   | -9       | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0017       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5115   | -9       | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0050       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5115   | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0050       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5115   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5119   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0110       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5119   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0110       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5119   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0110       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0049       | 090     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0049       | 100     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0049       | 090     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0049       | 100     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0049       | 090     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5127   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0049       | 100     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5139   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5139   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 5139   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 01130362   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 01130383   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 01130362   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 01130383   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 01130362   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 01130383   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6001   | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0113031438 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing                             |
| 6001   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6001   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating    |
| 6001   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6001   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6001   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6005   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0304011    | 54      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6005   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0304011    | 54      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6005   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0304011    | 54      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6007   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0416049    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6007   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0416049    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6007   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0416049    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6013   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07130310   | 4285    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6013   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07130310   | 4285    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6013   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07130310   | 4285    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6013   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6013   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6013   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 6013   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6013   | 40202502 | VOC   | -9   | 80.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating     |
| 6013   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Underground |
| 6013   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6013   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6017   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0904077   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0904077   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0904077   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6017   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0904077   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 101430535 | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 101430825 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 101430535 | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 101430825 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 101430535 | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6019   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 101430825 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1206204   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062047  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 10      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 11      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062072  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062084  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062084  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062095  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062096  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062097  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12062098  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1206204   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062047  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 10      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 11      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062060  | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062072  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062084  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062084  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062095  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062096  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062097  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12062098  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1206204   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062047  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062060  | 10      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062060  | 11      |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062060  | 9       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062072  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062084  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062084  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062095  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062096  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062097  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6023   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12062098  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 13151110  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 13151110  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 13151110  | 6       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 13151110  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 13151110  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID     | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|-------------|---------|---------|---------|--|
| 6025   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 13151110    | 6       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13151110    | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13151110    | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6025   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13151110    | 6       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1514301751  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 151430883   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15143091    | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1514301751  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 151430883   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 15143091    | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1514301751  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 151430883   | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6029   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15143091    | 3       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6031   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 161430603   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6031   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 161430603   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6031   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161430603   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18081415    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18081416    | 7       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1808144     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1808147     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1808147     | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1808149     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1808149     | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18081415    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18081416    | 7       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1808144     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1808147     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1808147     | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1808149     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1808149     | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18081415    | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18081416    | 7       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1808144     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1808147     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1808147     | 5       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1808149     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6035   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1808149     | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6037   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 19102698492 | 9001    |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6037   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 19102698492 | 9001    |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6037   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 19102698492 | 9001    |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6039   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2014301093  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6039   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2014301093  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6039   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2014301093  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                   |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 10      | 3       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 11      | 1       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 12      | 1       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 13      | 1       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 14      | 1       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 15      | 1       | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 4       | 41      | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 5       | 51      | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 6       | 61      | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30101899 | VOC   | -9   | 25.00 | 100 | 100 | -9  | 2113031317  | 7       | 71      | 1       | Bay Area SIP: Foam Product Manufacturing                                 |
| 6041   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |             |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P                |
| 6041   | 40202502 | VOC   | -9   | 80.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating     |
| 6041   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Underground |
| 6041   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |
| 6041   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |             |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills              |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID      | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|-------|------|-------|-----|-----|-----|--------------|---------|---------|---------|---|
| 6045   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230616100119 | 1005    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230616100119 | 1005    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230616120120 | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230616100119 | 1005    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230616120120 | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230616120120 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6045   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230616120120 | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6053   | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 2707152      |         |         |         | MACT: Lime Manufacturing  |
| 6053   | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 2707152      |         |         |         | MACT: Lime Manufacturing  |
| 6053   | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 2707152      |         |         |         | MACT: Lime Manufacturing  |
| 6055   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6055   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating    |
| 6055   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6055   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6055   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |              |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6059   | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 30102614091  |         |         |         | MACT: Lime Manufacturing  |
| 6059   | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 30102614091  |         |         |         | MACT: Lime Manufacturing  |
| 6059   | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 30102614091  |         |         |         | MACT: Lime Manufacturing  |
| 6061   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31162328     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31162343     | 101     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31162344     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3116235      | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31162328     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31162343     | 101     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31162344     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3116235      | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31162328     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31162343     | 101     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31162344     | 102     |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6061   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3116235      | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 32042215     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3204223      | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 32042215     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3204223      | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 32042215     | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6063   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3204223      | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6067   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 341624106    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6067   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 341624106    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6067   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 341624106    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 360518900002 | 30554   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 360518900002 | 30555   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 360518900002 | 30554   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 360518900002 | 30555   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 360518900002 | 30554   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6071   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 360518900002 | 30555   |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6075   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |              |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 6075   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6075   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating   |
| 6075   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6075   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6075   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6077   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 391430410  | 13      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 391430645  | 14      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 391430645  | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 391430410  | 13      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 391430645  | 14      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 391430645  | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 391430410  | 13      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 391430645  | 14      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6077   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 391430645  | 16      |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6081   | 30101802 | VOC   | -9   | 42.00 | 100 | 100 | -9  | 4113031690 | 14      | 141     | 1       | Bay Area SIP: Foam Product Manufacturing                                |
| 6081   | 30101802 | VOC   | -9   | 42.00 | 100 | 100 | -9  | 4113031690 | 4       | 41      | 1       | Bay Area SIP: Foam Product Manufacturing                                |
| 6081   | 30101899 | VOC   | -9   | 42.00 | 100 | 100 | -9  | 4113031690 | 15      | 6       | 1       | Bay Area SIP: Foam Product Manufacturing                                |
| 6081   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6081   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating   |
| 6081   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6081   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6081   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|---|
| 6085   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600806 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600807 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600812 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600813 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600814 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600815 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600816 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600817 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600818 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600819 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600820 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600821 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30600822 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6085   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating    |
| 6085   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6085   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6085   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |           |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6087   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 440715108 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6087   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 440715109 | 2100    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6087   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 440715108 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6087   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 440715109 | 2100    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6087   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 440715108 | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6087   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 440715109 | 2100    |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162818  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162839  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162839  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162840  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162842  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45162851  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162818  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162839  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162839  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162840  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162842  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162843  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 45162851  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162818  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162839  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162839  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162840  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162842  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162843  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162843  | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162843  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162843  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6089   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45162851  | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6091   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4604221   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6091   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 4604221   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6091   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4604221   | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 47082927  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 6       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 47082927  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 47082929  | 6       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 47082927  | 2       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 47082929  | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 47082929  | 5       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6093   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 47082929  | 6       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6095   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30600801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30600802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |           |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |



| Region | SCC      | PLTT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description   |
|--------|----------|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 6095   | 3060803  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060804  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060805  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060806  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060807  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060811  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060812  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060813  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060814  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060815  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060816  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060817  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060818  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060819  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060820  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060821  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 3060822  | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6095   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating    |
| 6095   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6095   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6095   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4913034982 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6097   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 4913034982 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6097   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4913034982 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6097   | 30188801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30188802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30188803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30188804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30188805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608001 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608002 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608003 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608004 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608005 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608006 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608007 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608111 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608112 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608113 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608114 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608115 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608116 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608117 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608118 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608119 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608120 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608121 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30608122 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30688801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30688802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30688803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30688804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 30688805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088801 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088802 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088803 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088804 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088805 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 31088811 | VOC   | -9   | 80.00 | 100 | 12  | -9  |            |         |         |         | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P               |
| 6097   | 40202502 | VOC   | -9   | 60.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating    |
| 6097   | 50410001 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil Aeration from Undergroun |
| 6097   | 50410310 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410311 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410312 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410313 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410314 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410321 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6097   | 50410322 | VOC   | -9   | 85.00 | 100 | 100 | -9  |            |         |         |         | Bay Area SIP: Prohibition of Contaminated Soil at Landfills             |
| 6099   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 5014302217 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6099   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 5014302217 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6099   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 5014302217 | 3       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 5504331    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55043312   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55043315   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 5504331    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 55043312   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 55043315   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 5504331    | 4       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55043312   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6109   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55043315   | 1       |         |         | MACT: Industrial Boiler/Process Heater                                  |
| 6113   | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 57163525   | 1036    |         |         | MACT: Industrial Boiler/Process Heater                                  |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 8001   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1295    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1295    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | SO2   | -9   | 12.26 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | SO2   | -9   | 28.19 | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8001   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1295    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1234    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1241    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1234    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1241    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1234    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8005   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1241    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8013   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8013   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8013   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0008    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1613    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1801    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 99.97 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0008    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1613    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1801    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 25.50 | 100 | 100 | -9  | 0008    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1613    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8031   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1801    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8035   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0176    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8035   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0176    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8035   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0176    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0030    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0054    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0030    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0054    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8041   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0054    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0028    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0028    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8043   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0028    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0771    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0820    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0820    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0820    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0830    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1215    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0771    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0820    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0820    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0820    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0830    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1215    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0771    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0830    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8059   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1215    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8069   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8069   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8069   | -9  | SO2   | -9   | 82.43 | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 8077   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 8085   | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 8085   | -9  | PM10  | -9   | 99.74 | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8085   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8085   | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8085   | -9  | SO2   | -9   | 71.20 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8085   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8087   | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8087   | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8087   | -9  | SO2   | -9   | 51.81 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8101   | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0006       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8101   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0006       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8101   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8105   | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8105   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8105   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM2_5 | -9   | 99.96 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | SO2   | -9   | 85.60 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | SO2   | -9   | 85.60 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 8107   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 9001   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0195       | R0162   |         |         | NOX SIP Call                                |
| 9001   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1012       | P0190   |         |         | NOX SIP Call                                |
| 9001   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1012       | P0191   |         |         | NOX SIP Call                                |
| 9001   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4214       | R0028   |         |         | NOX SIP Call                                |
| 9001   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4214       | R0030   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1510       | R0164   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1510       | R0166   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1510       | R0167   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1510       | R0168   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3058       | R0275   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3666       | P0064   |         |         | NOX SIP Call                                |
| 9003   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 8601       | P0029   |         |         | NOX SIP Call                                |
| 9003   | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2101       | R0002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9003   | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2101       | R0002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9003   | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2101       | R0002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9007   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0874       | R0098   |         |         | NOX SIP Call                                |
| 9007   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0874       | R0100   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | P0040   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | P0041   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | P0042   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | P0043   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | R0055   |         |         | NOX SIP Call                                |
| 9009   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2514       | R0058   |         |         | NOX SIP Call                                |
| 9011   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0604       | P0001   |         |         | NOX SIP Call                                |
| 9011   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0604       | R0012   |         |         | NOX SIP Call                                |
| 9011   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1505       | R0017   |         |         | NOX SIP Call                                |
| 9011   | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3102       | R0003   |         |         | NOX SIP Call                                |
| 9011   | -9  | PM10  | -9   | 96.83 | 100 | 100 | -9  | 1544       | P0010   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9011   | -9  | PM10  | -9   | 96.83 | 100 | 100 | -9  | 1544       | P0011   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9011   | -9  | PM2_5 | -9   | 96.43 | 100 | 100 | -9  | 1544       | P0010   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9011   | -9  | PM2_5 | -9   | 96.43 | 100 | 100 | -9  | 1544       | P0011   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9011   | -9  | SO2   | -9   | 86.08 | 100 | 100 | -9  | 1544       | P0010   |         |         | MACT: Industrial Boiler/Process Heater      |
| 9011   | -9  | SO2   | -9   | 86.08 | 100 | 100 | -9  | 1544       | P0011   |         |         | MACT: Industrial Boiler/Process Heater      |
| 10001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000100002 | 003     |         |         | NOX SIP Call                                |
| 10001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000100076 | 001     |         |         | NOX SIP Call                                |
| 10001  | -9  | PM10  | -9   | 99.10 | 100 | 100 | -9  | 1000100127 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10001  | -9  | PM2_5 | -9   | 99.97 | 100 | 100 | -9  | 1000100127 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000100127 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300006 | 001     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300007 | 001     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300007 | 002     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300007 | 003     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 002     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 012     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 067     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 068     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 069     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 070     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300016 | 105     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300317 | 001     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300317 | 002     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300388 | 001     |         |         | NOX SIP Call                                |
| 10003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000300388 | 002     |         |         | NOX SIP Call                                |
| 10003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000300007 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000300007 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 068     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 069     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 070     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000300007 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000300007 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 068     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 069     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000300016 | 070     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000300007 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000300007 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000300016 | 068     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000300016 | 069     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000300016 | 070     |         |         | MACT: Industrial Boiler/Process Heater      |
| 10003  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 1000300015 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 10003  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 1000300128 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 10005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000500001 | 001     |         |         | NOX SIP Call                                |
| 10005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000500001 | 002     |         |         | NOX SIP Call                                |
| 10005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000500001 | 003     |         |         | NOX SIP Call                                |
| 10005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1000500001 | 005     |         |         | NOX SIP Call                                |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 10005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1000500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1000500002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1000500002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1000500001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1000500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1000500002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1000500002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 10005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1000500002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0025       | 003     |         |         | NOX SIP Call                           |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0025       | 004     |         |         | NOX SIP Call                           |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0025       | 005     |         |         | NOX SIP Call                           |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0025       | 006     |         |         | NOX SIP Call                           |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0040       | 001     |         |         | NOX SIP Call                           |
| 11001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0040       | 002     |         |         | NOX SIP Call                           |
| 11001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 11001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 12001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010006    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010006    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010006    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0050009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0050009    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0050014    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0050014    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM10  | -9   | 98.97 | 100 | 100 | -9  | 0050028    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0050009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0050009    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0050014    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0050014    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 0050028    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | SO2   | -9   | 37.60 | 100 | 100 | -9  | 0050009    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050014    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050014    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050028    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0190005    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0190005    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0190005    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0190005    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0190005    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0190005    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0310006    | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0310006    | 32      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0310337    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0310337    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0310337    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0310006    | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0310006    | 32      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0310197    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0310337    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0310337    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0310337    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310006    | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310006    | 32      |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310197    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310197    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310197    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310337    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310337    | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0310337    | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0330042    | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0330042    | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0330045    | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0330045    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0330042    | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0330042    | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0330045    | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0330045    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | SO2   | -9   | 82.72 | 100 | 100 | -9  | 0330042    | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | SO2   | -9   | 82.72 | 100 | 100 | -9  | 0330042    | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0330045    | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0330045    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0390009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0390009    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0390020    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0390009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0390009    | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0390020    | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0390009    | 15      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 12039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0390009 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0390020 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM10  | -9   | 71.14 | 100 | 100 | -9  | 0510003 | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0510003 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 0510003 | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0510003 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0510003 | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0510003 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0510003 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0510003 | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 12053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0530021 | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 12053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0530021 | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 12053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0530021 | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0570040 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0570040 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0570040 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0570040 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0570040 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0570040 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0630014 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0630014 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0630014 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0630014 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0630014 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0630014 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0770007 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0770007 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM10  | -9   | 98.72 | 100 | 100 | -9  | 0770009 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0770007 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0770007 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 0770009 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0770007 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0770007 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0770009 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12079  | -9  | PM10  | -9   | 75.03 | 100 | 100 | -9  | 0790011 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12079  | -9  | PM2_5 | -9   | 73.35 | 100 | 100 | -9  | 0790011 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0790011 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0850102 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0850102 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0850102 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0890003 | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0890003 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0890003 | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0890003 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0890003 | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 12089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0890003 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0910033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12091  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0910033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0910033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0990073 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0990073 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0990073 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 98.07 | 100 | 100 | -9  | 0990332 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 98.07 | 100 | 100 | -9  | 0990332 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM10  | -9   | 98.07 | 100 | 100 | -9  | 0990332 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990016 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990019 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990026 | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0990061 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0990073 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0990073 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0990073 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0990332 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0990332 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0990332 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990005 | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990005 | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0990016 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0990016 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990016 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990016 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0990016 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0990019 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0990019 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0990019 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0990019 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0990019 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 0990026 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 0990026 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 0990026 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 0990026 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 0990026 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990026 | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990061 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 0990061 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 0990061 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 0990061 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990073 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990073 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990073 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990332 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990332 | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 12099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0990332 | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 12105  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1050216 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12105  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1050216 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1050216 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 1070002 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM10  | -9   | 98.33 | 100 | 100 | -9  | 1070005 | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1070015 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1070030 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 1070002 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM2_5 | -9   | 98.22 | 100 | 100 | -9  | 1070005 | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1070015 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1070030 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1070002 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1070005 | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1070015 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1070030 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1230001 | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1230001 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1230033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1230033 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1230001 | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1230001 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1230033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1230033 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1230001 | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1230001 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1230033 | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 12123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1230033 | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1250005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1250005 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1250005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1250005 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1250005 | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 12125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1250005 | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 13003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 012     |         |         | NOX SIP Call                           |
| 13021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 013     |         |         | NOX SIP Call                           |
| 13021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 13021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 13021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 002     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 13021  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0066    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0066    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 014     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 85.60 | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0066    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13029  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13029  | -9       | SO2   | -9   | 32.80 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13033  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13033  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13033  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 003     |         |         | NOX SIP Call                                       |
| 13039  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 016     |         |         | NOX SIP Call                                       |
| 13039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | SO2   | -9   | 61.60 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13039  | -9       | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13049  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13049  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13049  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0005    | 003     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 019     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 020     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 021     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008    | 010     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008    | 012     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 004     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 005     |         |         | NOX SIP Call                                       |
| 13051  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0010    | 007     |         |         | NOX SIP Call                                       |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 021     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0110    | 017     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0132    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 021     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0110    | 017     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0132    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 021     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 005     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0110    | 017     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13051  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0132    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM10  | -9   | 96.09 | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 003     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13055  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13059  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00059   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13059  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00059   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13059  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00059   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13067  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00022   | F1      |         |         | NOX SIP Call                                       |
| 13067  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00022   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13067  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00022   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13067  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00022   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13067  | 10200212 | NOX   | -9   | 25.00 | 100 | 100 | -9  | 00022   | F1      | 91      | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13075  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 019     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13075  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 019     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13075  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 019     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13087  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0037    | 023     |         |         | NOX SIP Call                                       |
| 13089  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00086   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing        |
| 13093  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0022    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13093  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0022    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13093  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022    | 016     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 093     |         |         | NOX SIP Call                                       |
| 13095  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0022    | 004     |         |         | NOX SIP Call                                       |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 13095  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0071    | 001     |         |         | NOX SIP Call                                       |
| 13095  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0026    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0071    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0026    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0071    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 002     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0026    | 004     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13095  | -9       | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0071    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13099  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13109  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13109  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13109  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00021   | F1      |         |         | NOX SIP Call                                       |
| 13115  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00021   | F2      |         |         | NOX SIP Call                                       |
| 13115  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00021   | F3      |         |         | NOX SIP Call                                       |
| 13115  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00021   | F4      |         |         | NOX SIP Call                                       |
| 13115  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00021   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00021   | F2      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00021   | F3      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00021   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00021   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00021   | F2      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00021   | F3      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00021   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00021   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00021   | F2      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00021   | F3      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13115  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00021   | F4      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13121  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00020   | F1      |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00020   | F2      |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00020   | F3      |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00020   | F4      |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00401   | FK1     |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00401   | FK2     |         |         | NOX SIP Call                                       |
| 13121  | -9       | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00401   | FRM2    |         |         | NOX SIP Call                                       |
| 13121  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00364   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing        |
| 13121  | 30500606 | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00401   | FRM1    | 93      | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13121  | 30500606 | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00401   | FRM2    | 92      | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13127  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 008     |         |         | NOX SIP Call                                       |
| 13127  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 014     |         |         | NOX SIP Call                                       |
| 13127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 007     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13127  | -9       | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0002    | 009     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13133  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13133  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13133  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater             |
| 13139  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13139  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13139  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | F1      |         |         | MACT: Industrial Boiler/Process Heater             |
| 13145  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0002    | 002     |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML01    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML02    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML03    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML04    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML05    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML06    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML07    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML08    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML09    |         |         | NOX SIP Call                                       |
| 13151  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00025   | ML10    |         |         | NOX SIP Call                                       |
| 13151  | 20200201 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML16    | 916     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | AC01    | 920     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | AC02    | 921     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | AUX1    | 917     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | AUX2    | 918     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | AUX3    | 919     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML01    | 901     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML02    | 902     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML03    | 903     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML04    | 904     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML05    | 905     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML06    | 906     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML07    | 907     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML08    | 908     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML09    | 909     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML10    | 910     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML11    | 911     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML12    | 912     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML13    | 913     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML14    | 914     | 1       | Atlanta SIP: Controls on Other Large Point Sources |
| 13151  | 20200202 | NOX   | -9   | 61.50 | 100 | 100 | -9  | 00025   | ML15    | 915     | 1       | Atlanta SIP: Controls on Other Large Point Sources |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 13153  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0003    | 006     |         |         | NOX SIP Call                           |
| 13153  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0003    | 008     |         |         | NOX SIP Call                           |
| 13153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 13153  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 13153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 13159  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00012   | F1      |         |         | NOX SIP Call                           |
| 13159  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00012   | F2      |         |         | NOX SIP Call                           |
| 13159  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00012   | F3      |         |         | NOX SIP Call                           |
| 13159  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00012   | F4      |         |         | NOX SIP Call                           |
| 13175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0004    | 001     |         |         | NOX SIP Call                           |
| 13175  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13175  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0048    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13175  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13175  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0048    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0048    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13179  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 006     |         |         | NOX SIP Call                           |
| 13179  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 13179  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 13179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 13185  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13185  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13185  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0053    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13193  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 13193  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 13193  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0013    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00004   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | PM10  | -9   | 99.20 | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00004   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | PM2_5 | -9   | 99.05 | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13199  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13209  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13209  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13209  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13241  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 13241  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 13241  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0062    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0062    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13245  | -9  | SO2   | -9   | 8.80  | 100 | 100 | -9  | 0062    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13257  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13271  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13271  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13271  | -9  | SO2   | -9   | 13.60 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13285  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00046   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13285  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00046   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13285  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00046   | F1      |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0031    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0031    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0031    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0031    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0031    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13295  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0031    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13299  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0022    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 13299  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0022    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 13299  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 13301  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13301  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13301  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 13305  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13307  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0070    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0070    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0084    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0070    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0070    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0084    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0070    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 13313  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0070    | 002     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID     | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-------------|---------|---------|---------|--|
| 13313  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0084        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0101        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM10  | -9   | 92.39 | 100 | 100 | -9  | 0007        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM10  | -9   | 92.39 | 100 | 100 | -9  | 0014        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM10  | -9   | 92.39 | 100 | 100 | -9  | 0015        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM2_5 | -9   | 93.68 | 100 | 100 | -9  | 0007        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM2_5 | -9   | 93.68 | 100 | 100 | -9  | 0014        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | PM2_5 | -9   | 93.68 | 100 | 100 | -9  | 0015        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015        | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 15009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 15009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003        | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 01700003    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 01700027    | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM10  | -9   | 91.28 | 100 | 100 | -9  | 01700027    | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 01700003    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 01700027    | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 01700027    | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 01700003    | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 01700027    | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 16017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 01700027    | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02100001    | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 02100001    | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02100001    | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02300001CPP | IB 5    |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02300001CPP | IC3     |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 02300001CPP | IB 5    |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 02300001CPP | IC3     |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02300001CPP | IB 5    |         |         | MACT: Industrial Boiler/Process Heater |
| 16023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02300001CPP | IC3     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 027000010   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 027000010   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 027000010   | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 027000010   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 027000010   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 027000010   | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027000010   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027000010   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027000010   | 030     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | PM10  | -9   | 89.12 | 100 | 100 | -9  | 035000004   | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 035000004   | 060     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 035000004   | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 035000004   | 060     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 035000004   | 050     |         |         | MACT: Industrial Boiler/Process Heater |
| 16035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 035000004   | 060     |         |         | MACT: Industrial Boiler/Process Heater |
| 16045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 045000001   | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 16045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 045000001   | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 16045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 045000001   | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 16049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 049000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 049000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 049000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 055000004   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM10  | -9   | 89.12 | 100 | 100 | -9  | 055000007   | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 055000018   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 055000004   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 055000007   | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 055000018   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 055000004   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 055000007   | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 16055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 055000018   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | PM10  | -9   | 49.44 | 100 | 100 | -9  | 057000008   | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 057000025   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 057000008   | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 057000025   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 057000008   | 110     |         |         | MACT: Industrial Boiler/Process Heater |
| 16057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 057000025   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16067  | -9  | PM10  | -9   | 41.73 | 100 | 100 | -9  | 067000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16067  | -9  | PM2_5 | -9   | 40.90 | 100 | 100 | -9  | 067000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 067000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 083000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 083000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 083000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 083000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 083000001   | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 16083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 083000001   | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 001065ACO   | 0001    |         |         | NOX SIP Call                           |
| 17001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 001065ACO   | 0002    |         |         | NOX SIP Call                           |
| 17001  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 001065ABP   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM10  | -9   | 92.80 | 100 | 100 | -9  | 001065ACO   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM10  | -9   | 92.80 | 100 | 100 | -9  | 001065ACO   | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 001815AAF   | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 001815AAF   | 0052    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 001065ABP   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 001065ACO   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 001065ACO   | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 001815AAF   | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 001815AAF   | 0052    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 001065ABP   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 001065ACO   | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 001065ACO   | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 001815AAF   | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 001815AAF   | 0052    |         |         | MACT: Industrial Boiler/Process Heater |
| 17003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 003005AAI   | 0020    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|---|
| 17003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 003802AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17003  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 003005AAI | 0020    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 003802AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 003005AAI | 0020    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 003802AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 007005AAF | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 007005AAF | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 007005AAF | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 007005AAF | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 007005AAF | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 007005AAF | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17007  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 007005AAF |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 17017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 017802AAI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 017802AAI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 017802AAI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 019010AFL | 0001    |         |         | NOX SIP Call                                |
| 17019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 019802AAI | 0003    |         |         | NOX SIP Call                                |
| 17019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 019827AAA | 0045    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 021060ABW | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 021816AAB | 0036    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 021060ABW | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 021816AAB | 0036    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 021060ABW | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 021816AAB | 0036    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 027807AAC | 0001    |         |         | NOX SIP Call                                |
| 17027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 027422AAB | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027422AAB | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027422AAB | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 027422AAB | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 029010AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 029010AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 029010AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031003ADA | 0001    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031012ABi | 0041    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031012ABi | 0042    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031012ABi | 0043    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031012ABi | 0045    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031012ABi | 0046    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0072    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0073    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0150    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0151    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0152    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0153    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0154    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0155    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0157    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0159    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0161    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031258AAI | 0163    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031300AAL | 0007    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600ALZ | 0014    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600AMA | 0012    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600AMA | 0031    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600AMC | 0090    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600AMC | 0091    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600ATR | 0010    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600DQO | 0023    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600FCV | 0060    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600FLT | 0001    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600FQP | 0003    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031600FUE | 0001    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031801AAB | 0002    |         |         | NOX SIP Call                                |
| 17031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 031801AAB | 0021    |         |         | NOX SIP Call                                |
| 17031  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 031012ABi | 0041    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 031012ABi | 0042    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 031012ABi | 0045    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 031174AAG |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 031309AAB |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 031600ADY |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 031600EKV | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 031600FHP | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 031012ABi | 0041    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 031012ABi | 0042    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 031012ABi | 0045    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 031174AAG |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 031309AAB |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 031600ADY |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 031600EKV | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 031600FHP | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 031012ABi | 0041    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 031012ABi | 0042    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 031012ABi | 0045    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 031174AAG |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 031309AAB |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 031600ADY |         |         |         | MACT: Lime Manufacturing                    |
| 17031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 031600EKV | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 031600FHP | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17031  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 031600AAR |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 17033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 033808AAB | 0055    |         |         | NOX SIP Call                                |
| 17033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 033808AAB | 0056    |         |         | NOX SIP Call                                |
| 17033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 033808AAB | 0057    |         |         | NOX SIP Call                                |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|---|
| 17033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 033808AAB | 0058    |         |         | NOX SIP Call                                |
| 17041  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 041808AAF | 0002    |         |         | NOX SIP Call                                |
| 17043  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 043802AAA | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17043  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 043802AAA | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 043802AAA | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17049  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 049025AAW | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17049  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 049025AAW | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 049025AAW | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 051800AAC | 0007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 051800AAC | 0007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 055070AAH | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 055070AAH | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 055070AAH | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAC | 0014    |         |         | NOX SIP Call                                |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAC | 0016    |         |         | NOX SIP Call                                |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAC | 0017    |         |         | NOX SIP Call                                |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAC | 0025    |         |         | NOX SIP Call                                |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAC | 0100    |         |         | NOX SIP Call                                |
| 17063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 063800AAH | 0017    |         |         | NOX SIP Call                                |
| 17073  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 073815AAC | 0002    |         |         | NOX SIP Call                                |
| 17073  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 073816AAA | 0001    |         |         | NOX SIP Call                                |
| 17073  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 073816AAA | 0012    |         |         | NOX SIP Call                                |
| 17073  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 073816AAA | 0013    |         |         | NOX SIP Call                                |
| 17073  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 073816AAA | 0014    |         |         | NOX SIP Call                                |
| 17077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 077801AAA | 0007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 077801AAA | 0008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17077  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 077801AAA | 0007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 077801AAA | 0008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 077801AAA | 0007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 077801AAA | 0008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 087856AAA | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 087856AAA | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 087856AAA | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 089800AAH | 0001    |         |         | NOX SIP Call                                |
| 17091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 091811AAB | 0011    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17093  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 093802AAF | 0003    |         |         | NOX SIP Call                                |
| 17093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 093807AAB | 0008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 095020ABS | 0015    |         |         | NOX SIP Call                                |
| 17097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097125AAG | 0005    |         |         | NOX SIP Call                                |
| 17097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097190AAK | 0035    |         |         | NOX SIP Call                                |
| 17097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097811AAC | 0071    |         |         | NOX SIP Call                                |
| 17097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097811AAC | 0072    |         |         | NOX SIP Call                                |
| 17097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 097125AAG | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17097  | -9  | PM10  | -9   | 94.60 | 100 | 100 | -9  | 097809AAD | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 097125AAG | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17097  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 097809AAD | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 097125AAG | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 097809AAD | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17099  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 099030AAZ | 0007    |         |         | NOX SIP Call                                |
| 17099  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 099816AAF | 0006    |         |         | NOX SIP Call                                |
| 17103  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 103806AAC | 0016    |         |         | NOX SIP Call                                |
| 17107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 107802AAC | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 107802AAC | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 107802AAC | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 107802AAC | 0006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 109035AAG | 0016    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 109035AAG | 0016    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 109035AAG | 0016    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17113  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 113813AAE |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015AAE | 0081    |         |         | NOX SIP Call                                |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015AAE | 0220    |         |         | NOX SIP Call                                |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015AAE | 0221    |         |         | NOX SIP Call                                |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015AAY | 0033    |         |         | NOX SIP Call                                |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015ABX | 0129    |         |         | NOX SIP Call                                |
| 17115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 115015ABX | 0130    |         |         | NOX SIP Call                                |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0081    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0219    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0220    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0221    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAK | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 115015AAY | 0056    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 115015ABX | 0299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 115015AAE | 0081    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0219    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0220    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 115015AAE | 0221    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 115015AAK | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 115015AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 115015AAY | 0056    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 115015ABX | 0299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAE | 0081    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAE | 0219    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAE | 0220    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAE | 0221    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAK | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAK | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015AAY | 0056    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 115015ABX | 0299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119010AAL | 0001    |         |         | NOX SIP Call                                |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119010AAL | 0002    |         |         | NOX SIP Call                                |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119040AAQ | 0001    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119050AAA | 0007    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119050AAA | 0009    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119050AAA | 0011    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119090AAA | 0080    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119090AAA | 0081    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119090AAA | 0083    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119813AAI | 0041    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119813AAI | 0042    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119813AAI | 0044    |         |         | NOX SIP Call                           |
| 17119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 119813AAI | 0048    |         |         | NOX SIP Call                           |
| 17119  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 119010AAL | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 119010AAL | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 119020AAG | 0265    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 119010AAL | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 119010AAL | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 119020AAG | 0265    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 119010AAL | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 119010AAL | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 119020AAG | 0229    |         |         | MACT: Industrial Boiler/Process Heater |
| 17119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 119020AAG | 0265    |         |         | MACT: Industrial Boiler/Process Heater |
| 17123  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 123803AAJ | 0012    |         |         | MACT: Industrial Boiler/Process Heater |
| 17123  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 123803AAJ | 0012    |         |         | MACT: Industrial Boiler/Process Heater |
| 17123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 123803AAJ | 0012    |         |         | MACT: Industrial Boiler/Process Heater |
| 17127  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 127855AAA | 0066    |         |         | NOX SIP Call                           |
| 17131  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 131050AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17131  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 131050AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 131050AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 137020AAS | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 137020AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 137020AAS | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 137020AAS | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 137020AAS | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 137020AAS | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 17139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 139404AAH | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 139404AAH | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 139404AAH | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17141  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 141050AAH | 0001    |         |         | NOX SIP Call                           |
| 17141  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 141050AAH | 0002    |         |         | NOX SIP Call                           |
| 17143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 143065AJE | 0006    |         |         | NOX SIP Call                           |
| 17143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 143065AJE | 0016    |         |         | NOX SIP Call                           |
| 17143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 143065AJE | 0017    |         |         | NOX SIP Call                           |
| 17143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 143065AJE | 0027    |         |         | NOX SIP Call                           |
| 17143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 143810AAB | 0011    |         |         | NOX SIP Call                           |
| 17143  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 143065AJE | 0016    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 143065AJE | 0017    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM10  | -9   | 94.60 | 100 | 100 | -9  | 143810AAB | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 143810AAB | 0023    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 143810AAB | 0024    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 143816AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 143065AJE | 0016    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 143065AJE | 0017    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 143810AAB | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 143810AAB | 0023    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 143810AAB | 0024    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 143816AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 143065AJE | 0016    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 143065AJE | 0017    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 143810AAB | 0003    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 79.84 | 100 | 100 | -9  | 143810AAB | 0023    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 143810AAB | 0024    |         |         | MACT: Industrial Boiler/Process Heater |
| 17143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 143816AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17147  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 147802AAB | 0002    |         |         | NOX SIP Call                           |
| 17161  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 161025AAH | 0018    |         |         | NOX SIP Call                           |
| 17161  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 161025AAH | 0019    |         |         | NOX SIP Call                           |
| 17161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 161025AAH | 0043    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 161045AIP | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 85.60 | 100 | 100 | -9  | 161065AAW | 0049    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 161065AAW | 0050    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 161065AAW | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 72.59 | 100 | 100 | -9  | 161065ABD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM10  | -9   | 71.18 | 100 | 100 | -9  | 161807AAK | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 40.98 | 100 | 100 | -9  | 161025AAH | 0043    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 161045AIP | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 161065AAW | 0049    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 161065AAW | 0050    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 161065AAW | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 161065ABD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 161807AAK | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161025AAH | 0043    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161045AIP | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161065AAW | 0049    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161065AAW | 0050    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161065AAW | 0051    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161065ABD | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 161807AAK | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 17163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 163045ADT | 0061    |         |         | NOX SIP Call                           |
| 17167  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 167801AAA | 0003    |         |         | NOX SIP Call                           |
| 17167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 167812AAG | 0029    |         |         | NOX SIP Call                           |
| 17167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 167120ADP | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 17167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 167120ADP | 0005    |         |         | MACT: Industrial Boiler/Process Heater |
| 17167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 167120AHL | 0001    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|---|
| 17167  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 167120ADP | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 167120ADP | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 167120AHL | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 167120ADP | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 167120ADP | 0004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 167120ADP | 0005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 167120AHL | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 179060ACR | 0019    |         |         | NOX SIP Call                                |
| 17179  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 179060ACR | 0020    |         |         | NOX SIP Call                                |
| 17179  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 179060ACR | 0021    |         |         | NOX SIP Call                                |
| 17179  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0019    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0020    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0021    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 179801AAR | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0019    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0020    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 179060ACR | 0021    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 179801AAR | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 179060ACR | 0019    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 179060ACR | 0020    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 179060ACR | 0021    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 179801AAR | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17181  | -9  | PM10  | -9   | 91.60 | 100 | 100 | -9  | 181852AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17181  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 181852AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17181  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 181852AAC | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 183020ABT | 0144    |         |         | NOX SIP Call                                |
| 17183  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 183020ABT | 0144    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | PM10  | -9   | 91.60 | 100 | 100 | -9  | 183804AAY | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 183020ABT | 0144    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 183804AAY | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 183020ABT | 0144    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 183804AAY | 0002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197090AAI | 0037    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197090AAI | 0038    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197090AAI | 0190    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197800AAA | 0021    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197800AAA | 0038    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197800AAC | 0021    |         |         | NOX SIP Call                                |
| 17197  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 197800AAD | 0028    |         |         | NOX SIP Call                                |
| 17197  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 197803AAY |         |         |         | MACT: Lime Manufacturing                    |
| 17197  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 197803AAY |         |         |         | MACT: Lime Manufacturing                    |
| 17197  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 197803AAY |         |         |         | MACT: Lime Manufacturing                    |
| 17199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 199055AAZ | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17199  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 199862AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 199055AAZ | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 199862AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 199055AAZ | 0003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 199862AAD | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 201030AEI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 201030AEI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 17201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 201030AEI | 0001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 18001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 000005    | 031     |         |         | NOX SIP Call                                |
| 18001  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 000005    | 030     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18001  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 000005    | 030     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000005    | 030     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 000008    | 001     |         |         | NOX SIP Call                                |
| 18003  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 000036    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 18017  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 000005    | 401     |         |         | NOX SIP Call                                |
| 18017  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 000005    | 413     |         |         | NOX SIP Call                                |
| 18017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000028    | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000028    | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000028    | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000028    | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000028    | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000028    | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000028    | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000028    | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000028    | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000079    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18023  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 000020    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18023  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 000020    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000020    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18029  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 000008    | 002     |         |         | NOX SIP Call                                |
| 18029  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 000005    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18029  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 000005    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000005    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18035  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18035  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 000031    | 002     |         |         | NOX SIP Call                                |
| 18037  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 000031    | 003     |         |         | NOX SIP Call                                |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000005    | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000007    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000010    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000016    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000017    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 77.28 | 100 | 100 | -9  | 000023    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000048    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000086    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 000099    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 001000    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 001000    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 001000    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 001002    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 18037  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 00106   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00106   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 00107   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM10  | -9   | 96.38 | 100 | 100 | -9  | 00107   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00007   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00016   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00017   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00023   | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00048   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00086   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00099   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00100   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00100   | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00100   | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00102   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00106   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00106   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00107   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | PM2_5 | -9   | 91.65 | 100 | 100 | -9  | 00107   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00007   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00016   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00017   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00023   | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00048   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00086   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00099   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00100   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00100   | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00100   | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00102   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00106   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00106   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00107   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00107   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 00098   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00103   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00395   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00098   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00103   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00395   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00098   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00103   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00395   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | PM10  | -9   | 64.55 | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18051  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00037   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 18053  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00004   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00004   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00004   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00004   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00004   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00004   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18055  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 00008   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18055  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 00008   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00002   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 18079  | -9  | PM10  | -9   | 93.59 | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18079  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 001     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 002     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00121   | 028     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00121   | 701     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00121   | 714     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00121   | 720     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00203   | 007     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 261     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 262     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 263     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 264     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 265     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 266     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 280     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 281     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 282     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 283     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 284     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 285     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 320     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 321     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 322     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00316   | 330     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00318   | 020     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00318   | 021     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00318   | 022     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00318   | 023     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00318   | 024     |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00333   | 34      |         |         | NOX SIP Call                           |
| 18089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00382   | 023     |         |         | NOX SIP Call                           |
| 18089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00076   | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00112   |         |         |         | MACT: Lime Manufacturing               |
| 18089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00242   | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00316   | 322     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00076   | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 00112   |         |         |         | MACT: Lime Manufacturing               |
| 18089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00242   | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00316   | 322     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00076   | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00112   |         |         |         | MACT: Lime Manufacturing               |
| 18089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00242   | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 18089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00316   | 322     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00002   | 011     |         |         | NOX SIP Call                           |
| 18093  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00002   | 012     |         |         | NOX SIP Call                           |
| 18093  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00002   | 013     |         |         | NOX SIP Call                           |
| 18093  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 00002   | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 00002   | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00002   | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00002   | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 18093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00034   | 001     |         |         | NOX SIP Call                           |
| 18097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00034   | 002     |         |         | NOX SIP Call                           |
| 18097  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00095   | 008     |         |         | NOX SIP Call                           |
| 18097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00315   | 029     |         |         | NOX SIP Call                           |
| 18097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00031   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 00034   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM10  | -9   | 98.00 | 100 | 100 | -9  | 00034   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM10  | -9   | 98.00 | 100 | 100 | -9  | 00034   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00315   | 047     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00031   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00034   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 00034   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 00034   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00315   | 047     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00031   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00034   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00034   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00034   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00315   | 047     |         |         | MACT: Industrial Boiler/Process Heater |
| 18103  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00016   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18103  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00016   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00016   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00005   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00005   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM10  | -9   | 99.73 | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00005   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00005   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 18117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18117  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00006   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18117  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18121  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00008   | 012     |         |         | NOX SIP Call                                |
| 18123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 101     |         |         | NOX SIP Call                                |
| 18129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 108     |         |         | NOX SIP Call                                |
| 18129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 111     |         |         | NOX SIP Call                                |
| 18129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 114     |         |         | NOX SIP Call                                |
| 18129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 108     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 111     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 114     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 115     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 108     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 111     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 114     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 115     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 108     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 111     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 114     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 115     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 18      |         |         | MACT: Industrial Boiler/Process Heater      |
| 18133  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 00002   | 002     |         |         | NOX SIP Call                                |
| 18141  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 00009   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00013   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00013   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00033   | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00009   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00013   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00013   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00033   | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00033   | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18145  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00011   | 001     |         |         | NOX SIP Call                                |
| 18145  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00011   | 002     |         |         | NOX SIP Call                                |
| 18145  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00011   | 008     |         |         | NOX SIP Call                                |
| 18145  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00011   | 009     |         |         | NOX SIP Call                                |
| 18149  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00005   | 002     |         |         | NOX SIP Call                                |
| 18149  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 00005   | 003     |         |         | NOX SIP Call                                |
| 18157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 102     |         |         | NOX SIP Call                                |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 099     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 100     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 102     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 103     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 104     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 00003   | 105     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.97 | 100 | 100 | -9  | 00003   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00006   | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00006   | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 00006   | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 00006   | 045     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.73 | 100 | 100 | -9  | 00012   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.73 | 100 | 100 | -9  | 00012   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 00012   | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 099     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 100     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 102     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 103     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 104     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00003   | 105     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.90 | 100 | 100 | -9  | 00003   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00006   | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00006   | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00006   | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00006   | 045     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 00012   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 00012   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00012   | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 099     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 100     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 102     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 103     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 104     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 105     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 107     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 045     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18157  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00050   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 18163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18163  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00015   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18163  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00015   | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 18163  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 00027   | 002     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 18163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00015   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00015   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00027   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00015   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00015   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 18163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00027   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18165  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00009   | 002     |         |         | NOX SIP Call                           |
| 18165  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18165  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM10  | -9   | 98.68 | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM10  | -9   | 98.68 | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 00013   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 00022   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 00022   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00013   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00022   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00022   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00022   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00022   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18169  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 18169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 18169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 00001   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | PM10  | -9   | 91.49 | 100 | 100 | -9  | 00007   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00001   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00007   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 18175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00007   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 18181  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 00016   | 806     |         |         | MACT: Industrial Boiler/Process Heater |
| 18181  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00016   | 806     |         |         | MACT: Industrial Boiler/Process Heater |
| 18181  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00016   | 806     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 00014   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 00014   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00014   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00014   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00014   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 18183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00014   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 71      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0130    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0130    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0130    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0130    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 0130    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 71      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0130    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0130    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0130    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0130    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0130    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 69      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 71      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0130    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0130    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0130    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0130    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0130    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0030    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0030    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM10  | -9   | 92.85 | 100 | 100 | -9  | 0030    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM10  | -9   | 92.85 | 100 | 100 | -9  | 0030    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0030    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0030    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0030    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0030    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19057  | -9  | PM10  | -9   | 42.89 | 100 | 100 | -9  | 0020    | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 19057  | -9  | PM2_5 | -9   | 42.16 | 100 | 100 | -9  | 0020    | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 19057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 19057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0065    | BL      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0065    | BM      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0065    | BN      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0065    | BO      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0065    | BL      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0065    | BM      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0065    | BN      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0065    | BO      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | BL      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | BM      |         |         | MACT: Industrial Boiler/Process Heater |
| 19061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | BN      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 19061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | BO      |         |         | MACT: Industrial Boiler/Process Heater |
| 19071  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19071  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM10  | -9   | 93.59 | 100 | 100 | -9  | 0060    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM10  | -9   | 58.49 | 100 | 100 | -9  | 0060    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM10  | -9   | 93.59 | 100 | 100 | -9  | 0060    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0060    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0060    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0060    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0060    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0060    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0060    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0065    | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0065    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0065    | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0065    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 19111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0065    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 0020    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0270    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0020    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0270    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 72      |         |         | MACT: Industrial Boiler/Process Heater |
| 19113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0270    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0025    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0025    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0025    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 93.18 | 100 | 100 | -9  | 0025    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0045    | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0025    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0045    | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 19139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0045    | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0105    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM10  | -9   | 93.70 | 100 | 100 | -9  | 0105    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0125    |         |         |         | MACT: Lime Manufacturing               |
| 19163  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0155    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM10  | -9   | 81.59 | 100 | 100 | -9  | 0155    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM10  | -9   | 41.36 | 100 | 100 | -9  | 0170    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0105    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0105    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0125    |         |         |         | MACT: Lime Manufacturing               |
| 19163  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0155    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0155    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | PM2_5 | -9   | 40.90 | 100 | 100 | -9  | 0170    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0105    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0105    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0125    |         |         |         | MACT: Lime Manufacturing               |
| 19163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0155    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0155    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0170    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0080    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 0080    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0080    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0080    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0080    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0080    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 19169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0005    | 47      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0005    | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0005    | 47      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0005    | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 47      |         |         | MACT: Industrial Boiler/Process Heater |
| 19197  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 20155  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00009   | 000001  |         |         | MACT: Industrial Boiler/Process Heater |
| 20155  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00009   | 000001  |         |         | MACT: Industrial Boiler/Process Heater |
| 20155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 000001  |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 20209  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00046      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 21001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2100100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2100100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2100100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21005  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 2100500003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21005  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2100500003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2100500003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21007  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 2100700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21007  | -9  | PM2_5 | -9   | 90.28 | 100 | 100 | -9  | 2100700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21007  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 2100700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21009  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2100900009 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21009  | -9  | PM2_5 | -9   | 45.95 | 100 | 100 | -9  | 2100900009 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2100900009 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21011  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101100004 | 001     |         |         | NOX SIP Call                                |
| 21013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2101300091 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2101300091 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2101300091 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2101300091 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2101300091 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2101300091 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900004 | 060     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900004 | 061     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900004 | 0W1     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900005 | 0G4     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900005 | 0G5     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900005 | 0G6     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900027 | 020     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900027 | 021     |         |         | NOX SIP Call                                |
| 21019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2101900027 | 022     |         |         | NOX SIP Call                                |
| 21029  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2102900005 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21029  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 2102900005 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2102900005 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2104100004 | 0AA     |         |         | NOX SIP Call                                |
| 21045  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2104500021 | 004     |         |         | NOX SIP Call                                |
| 21045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2104500021 | 005     |         |         | NOX SIP Call                                |
| 21049  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2104900004 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21049  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2104900004 | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2104900004 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2104900004 | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2104900004 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2104900004 | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21053  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2105300015 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2105300015 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105300015 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2105900039 | 032     |         |         | NOX SIP Call                                |
| 21059  | -9  | PM10  | -9   | 61.00 | 100 | 100 | -9  | 2105900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2105900039 | 032     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2105900068 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM10  | -9   | 83.20 | 100 | 100 | -9  | 2105900108 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2105900114 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2105900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM2_5 | -9   | 99.59 | 100 | 100 | -9  | 2105900039 | 032     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2105900068 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM2_5 | -9   | 46.01 | 100 | 100 | -9  | 2105900108 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2105900114 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105900039 | 032     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105900068 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105900108 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2105900114 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 2106700003 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 2106700003 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM10  | -9   | 96.70 | 100 | 100 | -9  | 2106700003 | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2106700003 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2106700003 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2106700003 | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2106700003 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2106700003 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2106700003 | 013     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21071  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2107100138 | 001     |         |         | NOX SIP Call                                |
| 21071  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2107100151 | 004     |         |         | NOX SIP Call                                |
| 21073  | -9  | PM10  | -9   | 89.80 | 100 | 100 | -9  | 2107300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 2107300001 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 2107300009 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2107300042 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2107300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2107300001 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2107300009 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2107300042 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2107300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2107300001 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2107300009 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21073  | -9  | SO2   | -9   | 71.20 | 100 | 100 | -9  | 2107300042 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2108500011 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2108500026 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2108500011 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2108500026 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2108500011 | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2108500026 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21087  | -9  | PM10  | -9   | 71.74 | 100 | 100 | -9  | 2108700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2108700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2108700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21089  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2108900033 | 004     |         |         | NOX SIP Call                                |
| 21091  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 2109100002 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21091  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2109100005 | 034     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21091  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2109100002 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21091  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 2109100005 | 034     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 21091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2109100002 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2109100005 | 034     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2109500063 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2109500103 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2109500063 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2109500103 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2109500063 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2109500103 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21099  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2109900014 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21099  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2109900014 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2109900014 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110100061 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110100065 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110100093 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110100061 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110100065 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110100093 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110100061 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110100065 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110100093 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21103  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2110300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21103  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2110300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2110700134 | 001     |         |         | NOX SIP Call                                |
| 21107  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2110700134 | 002     |         |         | NOX SIP Call                                |
| 21107  | -9  | PM10  | -9   | 85.90 | 100 | 100 | -9  | 2110700003 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110700070 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | PM2_5 | -9   | 46.04 | 100 | 100 | -9  | 2110700003 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110700070 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110700003 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110700070 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2110900010 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2110900010 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2110900010 | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0060       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0062       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0167       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0189       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0223       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0870       | 001     |         |         | NOX SIP Call                                |
| 21111  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 0010       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0041       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0062       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0076       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0088       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0109       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0148       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0189       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0234       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0242       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0244       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0291       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0459       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0715       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0852       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0870       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0870       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0010       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0041       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0062       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0076       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0088       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0109       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0148       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0189       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0234       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0242       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0244       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0291       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0459       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0715       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0852       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0870       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0041       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0062       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0076       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0088       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0109       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0148       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0189       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0234       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0242       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0244       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0291       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0459       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0715       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0852       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0870       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21111  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0072       |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 21121  | -9  | PM10  | -9   | 77.44 | 100 | 100 | -9  | 2112100014 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21121  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2112100024 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21121  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2112100014 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21121  | -9  | PM2_5 | -9   | 95.20 | 100 | 100 | -9  | 2112100024 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2112100014 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 21121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2112100024 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2112500050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2112500073 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2112500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2112500050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2112500073 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2112500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2112500050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2112500073 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2112500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21137  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2113700008 | 001     |         |         | NOX SIP Call                           |
| 21137  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2113700008 | 004     |         |         | NOX SIP Call                           |
| 21137  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2113700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21137  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2113700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2113700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | PM10  | -9   | 98.44 | 100 | 100 | -9  | 2114500074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | PM10  | -9   | 98.92 | 100 | 100 | -9  | 2114500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 2114500074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 2114500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2114500074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2114500074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21147  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2114700028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21147  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2114700028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2114700028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 2115100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 2115100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 93.40 | 100 | 100 | -9  | 2115100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 93.40 | 100 | 100 | -9  | 2115100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 93.40 | 100 | 100 | -9  | 2115100007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115100038 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2115100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2115100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2115100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2115100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2115100007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115100038 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115100038 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2115500022 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2115500022 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115500001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115500001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115500022 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700009 | 0AA     |         |         | NOX SIP Call                           |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700009 | 0AB     |         |         | NOX SIP Call                           |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700039 | 025     |         |         | NOX SIP Call                           |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700039 | 071     |         |         | NOX SIP Call                           |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700039 | 072     |         |         | NOX SIP Call                           |
| 21157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2115700039 | 0CR     |         |         | NOX SIP Call                           |
| 21157  | -9  | PM10  | -9   | 97.54 | 100 | 100 | -9  | 2115700009 | 0AA     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM10  | -9   | 97.54 | 100 | 100 | -9  | 2115700009 | 0AB     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115700039 | 067     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2115700039 | 078     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2115700009 | 0AA     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2115700009 | 0AB     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115700039 | 067     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2115700039 | 078     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115700009 | 0AA     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115700009 | 0AB     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115700039 | 067     |         |         | MACT: Industrial Boiler/Process Heater |
| 21157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115700039 | 078     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM10  | -9   | 99.58 | 100 | 100 | -9  | 2115900002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2115900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2115900006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM2_5 | -9   | 43.00 | 100 | 100 | -9  | 2115900002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM2_5 | -9   | 94.22 | 100 | 100 | -9  | 2115900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 2115900006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115900002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2115900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21159  | -9  | SO2   | -9   | 23.20 | 100 | 100 | -9  | 2115900006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 2116100010 |         |         |         | MACT: Lime Manufacturing               |
| 21161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 2116100010 |         |         |         | MACT: Lime Manufacturing               |
| 21161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2116100010 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 2116100010 |         |         |         | MACT: Lime Manufacturing               |
| 21161  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 2116100010 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 2116100010 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21161  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 2116100010 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2116300001 | 004     |         |         | NOX SIP Call                           |
| 21163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2116300001 | 006     |         |         | NOX SIP Call                           |
| 21163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2116300001 | 01F     |         |         | MACT: Industrial Boiler/Process Heater |
| 21163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2116300001 | 01F     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 21163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2116300001 | 01F     |         |         | MACT: Industrial Boiler/Process Heater |
| 21169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2116900012 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2116900012 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2116900012 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2117100011 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 2117100025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2117100011 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2117100025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117100011 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117100025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM10  | -9   | 96.82 | 100 | 100 | -9  | 2117500019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM10  | -9   | 96.82 | 100 | 100 | -9  | 2117500019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM10  | -9   | 96.82 | 100 | 100 | -9  | 2117500019 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM10  | -9   | 96.82 | 100 | 100 | -9  | 2117500019 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117500019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117500019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117500019 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117500019 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117500019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117500019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117500019 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117500019 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 2117700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2117700047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2117700060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 2117700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2117700047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2117700060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117700047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21177  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117700060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2117900014 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | PM10  | -9   | 92.08 | 100 | 100 | -9  | 2117900020 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117900014 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2117900020 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117900014 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2117900020 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | PM10  | -9   | 89.80 | 100 | 100 | -9  | 2118300001 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | PM10  | -9   | 89.80 | 100 | 100 | -9  | 2118300001 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2118300001 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2118300001 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2118300001 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 21183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2118300001 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 2119100002 |         |         |         | MACT: Lime Manufacturing               |
| 21191  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2119100002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2119100002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM10  | -9   | 88.36 | 100 | 100 | -9  | 2119100007 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2119100007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 2119100002 |         |         |         | MACT: Lime Manufacturing               |
| 21191  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2119100002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2119100002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2119100007 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2119100007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 2119100002 |         |         |         | MACT: Lime Manufacturing               |
| 21191  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 2119100002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 2119100002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119100007 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 21191  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119100007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 21193  | -9  | PM10  | -9   | 97.06 | 100 | 100 | -9  | 2119300097 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21193  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2119300097 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119300097 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21195  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2119500250 | 004     |         |         | NOX SIP Call                           |
| 21197  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2119700006 | 004     |         |         | NOX SIP Call                           |
| 21197  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2119700013 | 004     |         |         | NOX SIP Call                           |
| 21197  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2119700008 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21197  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2119700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21197  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2119700008 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21197  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 2119700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21197  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119700008 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 21197  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2119900020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2119900020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2119900074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2119900074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2119900079 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2119900020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2119900020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2119900074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2119900074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2119900079 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119900020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119900020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119900074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119900074 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2119900079 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 2120500005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 2120500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2120500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2120500016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2120500039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2120500041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 2120500005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 2120500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2120500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2120500016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2120500039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 21205  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2120500041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500005 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500016 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500039 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21205  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120500041 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21207  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2120700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21207  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 2120700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21207  | -9  | SO2   | -9   | 68.32 | 100 | 100 | -9  | 2120700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21209  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2120900011 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21209  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2120900011 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21209  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2120900011 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2121700033 | 004     |         |         | NOX SIP Call                                |
| 21217  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2121700034 | 004     |         |         | NOX SIP Call                                |
| 21217  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2121700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2121700027 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2121700027 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2121700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2121700027 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2121700027 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2121700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2121700027 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21217  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2121700027 | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21219  | -9  | PM10  | -9   | 90.94 | 100 | 100 | -9  | 2121900013 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21219  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2121900013 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21219  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2121900013 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21223  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2122300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21223  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2122300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21223  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2122300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 2122700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2122700109 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2122700131 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2122700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2122700109 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2122700131 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2122700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2122700109 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2122700131 | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21227  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 2122700005 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 21231  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 2123100003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2123100005 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2123100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2123100010 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 2123100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 2123100003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2123100005 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2123100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2123100010 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2123100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123100003 | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123100005 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123100010 | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21231  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21233  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2123300074 | 002     |         |         | NOX SIP Call                                |
| 21233  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2123300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21233  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2123300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 21233  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2123300020 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 22003  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0007       | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22003  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0007       | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007       | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010       | 18      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0012       | 85      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013       | 17      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013       | 51      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013       | G1      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010       | 18      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0012       | 85      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013       | 17      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013       | 51      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013       | G1      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 18      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | SO2   | -9   | 99.71 | 100 | 100 | -9  | 0012       | 85      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 17      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 51      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | G1      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22013  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0002       | 08      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22013  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0002       | 08      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 08      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22017  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0033       |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 22019  | -9  | PM10  | -9   | 99.42 | 100 | 100 | -9  | 0017       | B4      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22019  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0017       | B4      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | ZB      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008       | 68      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017       | B4      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22031  | -9  | PM10  | -9   | 94.57 | 100 | 100 | -9  | 0003       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22031  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 0003       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0001       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 0001       | 07      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0001       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0001       | 07      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 07      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22047  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008       | 73      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22047  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008       | 73      |         |         | MACT: Industrial Boiler/Process Heater      |
| 22047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008       | 73      |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 22047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | FA      |         |         | MACT: Industrial Boiler/Process Heater |
| 22047  | -9  | SO2   | -9   | 98.08 | 100 | 100 | -9  | 0008    | G8      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0001    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM10  | -9   | 99.80 | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0001    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 22049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 54      |         |         | MACT: Industrial Boiler/Process Heater |
| 22051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 54      |         |         | MACT: Industrial Boiler/Process Heater |
| 22051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 54      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0005    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 77.12 | 100 | 100 | -9  | 0005    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0005    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0005    | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0020    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM10  | -9   | 86.40 | 100 | 100 | -9  | 0020    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0005    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0005    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0005    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0005    | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0020    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | PM2_5 | -9   | 77.50 | 100 | 100 | -9  | 0020    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | PM10  | -9   | 95.70 | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | PM10  | -9   | 99.60 | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 09      |         |         | MACT: Industrial Boiler/Process Heater |
| 22067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 22067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 22067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 22069  | -9  | PM10  | -9   | 60.87 | 100 | 100 | -9  | 0004    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22069  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 0004    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 22075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015    | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0009    | B1      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0009    | B2      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0009    | B1      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0009    | B2      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | B1      |         |         | MACT: Industrial Boiler/Process Heater |
| 22081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | B2      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 0007    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0007    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 05      |         |         | MACT: Industrial Boiler/Process Heater |
| 22085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 22087  | -9  | PM10  | -9   | 99.53 | 100 | 100 | -9  | 0006    | 81      |         |         | MACT: Industrial Boiler/Process Heater |
| 22087  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0006    | 81      |         |         | MACT: Industrial Boiler/Process Heater |
| 22087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 81      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0078    | 85      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0079    | 90      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0079    | 91      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0078    | 85      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0079    | 90      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0079    | 91      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0078    | 85      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0079    | 87      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0079    | 90      |         |         | MACT: Industrial Boiler/Process Heater |
| 22089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0079    | 91      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | PM10  | -9   | 91.88 | 100 | 100 | -9  | 0015    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0021    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0015    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0021    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0021    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 22095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013    | 69      |         |         | MACT: Industrial Boiler/Process Heater |
| 22095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013    | 83      |         |         | MACT: Industrial Boiler/Process Heater |
| 22105  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0014    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22105  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0014    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 22119  | -9  | PM10  | -9   | 65.09 | 100 | 100 | -9  | 0011    | 1B      |         |         | MACT: Industrial Boiler/Process Heater |
| 22119  | -9  | PM2_5 | -9   | 59.50 | 100 | 100 | -9  | 0011    | 1B      |         |         | MACT: Industrial Boiler/Process Heater |
| 22119  | -9  | SO2   | -9   | 95.20 | 100 | 100 | -9  | 0011    | 1A      |         |         | MACT: Industrial Boiler/Process Heater |
| 22119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 1B      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0006    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0006    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0006    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM10  | -9   | 99.80 | 100 | 100 | -9  | 0014    | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0006    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0006    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0006    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 0014    | 17      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 22127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 22127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014       | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 23001  | -9  | PM10  | -9   | 98.33 | 100 | 100 | -9  | 2300100087 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23001  | -9  | PM2_5 | -9   | 98.22 | 100 | 100 | -9  | 2300100087 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300100087 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300050 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 99.30 | 100 | 100 | -9  | 2300300051 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 98.36 | 100 | 100 | -9  | 2300300062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 98.36 | 100 | 100 | -9  | 2300300062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2300300063 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM10  | -9   | 98.33 | 100 | 100 | -9  | 2300300072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300048 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300050 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 2300300051 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 97.94 | 100 | 100 | -9  | 2300300062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 97.94 | 100 | 100 | -9  | 2300300062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2300300063 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | PM2_5 | -9   | 98.22 | 100 | 100 | -9  | 2300300072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300048 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300048 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300048 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300050 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300050 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300051 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300063 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300300072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | PM10  | -9   | 98.72 | 100 | 100 | -9  | 2300500138 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | PM10  | -9   | 98.72 | 100 | 100 | -9  | 2300500138 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2300500138 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2300500138 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300500138 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300500138 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM10  | -9   | 95.70 | 100 | 100 | -9  | 2300700021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM10  | -9   | 98.33 | 100 | 100 | -9  | 2300700023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 2300700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 2300700061 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 2300700021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM2_5 | -9   | 98.22 | 100 | 100 | -9  | 2300700023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2300700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 2300700061 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300700021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300700023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300700061 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23009  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 2300900004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23009  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2300900004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2300900004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700045 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700045 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301700046 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700012 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700045 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700046 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301700046 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900023 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 94.58 | 100 | 100 | -9  | 2301900054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 97.80 | 100 | 100 | -9  | 2301900055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 99.65 | 100 | 100 | -9  | 2301900086 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 2301900110 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 23019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2301900118 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900023 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900052 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 2301900054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 98.22 | 100 | 100 | -9  | 2301900055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2301900086 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 2301900110 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2301900118 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900023 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900052 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900052 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900052 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900086 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900110 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2301900118 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 2302100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 2302100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302100012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM10  | -9   | 98.07 | 100 | 100 | -9  | 2302100014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2302100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2302100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302100012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2302100014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302100014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23025  | -9  | PM10  | -9   | 99.65 | 100 | 100 | -9  | 2302500028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23025  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2302500028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302500028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23027  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 2302700005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23027  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2302700005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302700005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM10  | -9   | 98.97 | 100 | 100 | -9  | 2302900021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302900021 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302900021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM10  | -9   | 99.09 | 100 | 100 | -9  | 2302900023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2302900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 2302900021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302900021 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302900021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2302900023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2302900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302900021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302900021 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302900021 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302900023 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 23029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2302900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0011       | 001     |         |         | NOX SIP Call                           |
| 24001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0011       | 002     |         |         | NOX SIP Call                           |
| 24001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0011       | 041     |         |         | NOX SIP Call                           |
| 24001  | -9  | PM10  | -9   | 97.46 | 100 | 100 | -9  | 0011       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0011       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0011       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0011       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0468       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0468       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0468       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0468       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0468       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 24003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0468       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 012     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 013     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 014     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 015     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 016     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 017     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 018     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076       | 019     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0147       | 016     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0147       | 017     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0147       | 018     |         |         | NOX SIP Call                           |
| 24005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0147       | 019     |         |         | NOX SIP Call                           |
| 24005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0079       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0079       | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0079       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0079       | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0079       | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 24005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0079       | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 24013  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0012       | 002     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 24013  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0012    | 012     |         |         | NOX SIP Call                                |
| 24013  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0012    | 013     |         |         | NOX SIP Call                                |
| 24013  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0012    | 014     |         |         | NOX SIP Call                                |
| 24017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 014     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24021  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0013    | 021     |         |         | NOX SIP Call                                |
| 24021  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0013    | 022     |         |         | NOX SIP Call                                |
| 24025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0024    | 007     |         |         | NOX SIP Call                                |
| 24031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1822    | 001     |         |         | NOX SIP Call                                |
| 24031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1822    | 002     |         |         | NOX SIP Call                                |
| 24031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0019    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0019    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0014    | 014     |         |         | NOX SIP Call                                |
| 24033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0014    | 015     |         |         | NOX SIP Call                                |
| 24033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0014    | 016     |         |         | NOX SIP Call                                |
| 24033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0008    | 003     |         |         | NOX SIP Call                                |
| 24043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 24510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006    | 004     |         |         | NOX SIP Call                                |
| 24510  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0354    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 25003  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 1170012 |         |         |         | MACT: Lime Manufacturing                    |
| 25003  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 1170042 |         |         |         | MACT: Lime Manufacturing                    |
| 25003  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 1170012 |         |         |         | MACT: Lime Manufacturing                    |
| 25003  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 1170042 |         |         |         | MACT: Lime Manufacturing                    |
| 25003  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 1170012 |         |         |         | MACT: Lime Manufacturing                    |
| 25003  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 1170042 |         |         |         | MACT: Lime Manufacturing                    |
| 25009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190138 | 03      |         |         | NOX SIP Call                                |
| 25009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1210017 | 01      |         |         | NOX SIP Call                                |
| 25009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1210154 | 01      |         |         | NOX SIP Call                                |
| 25013  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0420086 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420086 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | PM10  | -9   | 94.58 | 100 | 100 | -9  | 0420054 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | PM10  | -9   | 99.20 | 100 | 100 | -9  | 0420519 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 0420054 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | PM2_5 | -9   | 99.05 | 100 | 100 | -9  | 0420519 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420004 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420004 | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420004 | 06      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420054 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420519 | 03      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190128 | 01      |         |         | NOX SIP Call                                |
| 25017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190128 | 02      |         |         | NOX SIP Call                                |
| 25017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190128 | 04      |         |         | NOX SIP Call                                |
| 25017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190234 | 01      |         |         | NOX SIP Call                                |
| 25017  | -9  | PM10  | -9   | 99.74 | 100 | 100 | -9  | 1190134 | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25017  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 1190134 | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1190134 | 05      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1192191 | 07      |         |         | NOX SIP Call                                |
| 25023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1192152 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1192152 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1192152 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1192191 | 07      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190033 | 01      |         |         | NOX SIP Call                                |
| 25025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1190033 | 02      |         |         | NOX SIP Call                                |
| 25027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1180115 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1180177 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1180398 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1180504 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM10  | -9   | 96.67 | 100 | 100 | -9  | 1180925 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1181258 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1180115 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1180177 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1180398 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1180504 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 1180925 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1181258 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1180115 | 04      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1180177 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1180398 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1180504 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 1180925 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 25027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1181258 | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 26003  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | B1470   | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26003  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | B1470   | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1470   | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A0025   | EU0009  |         |         | NOX SIP Call                                |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 26005  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | B5453   | EU0013  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26005  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | B5453   | EU0013  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B5453   | EU0013  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B7244   | EU0004  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1476   | EU0093  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1476   | EU0094  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | PM10  | -9   | 41.67 | 100 | 100 | -9  | B1476   | EU0095  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B1476   | EU0093  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | B1476   | EU0094  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1476   | EU0093  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1476   | EU0094  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1476   | EU0095  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A6428   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | A6428   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6428   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26021  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | N5575   | EU0024  |         |         | NOX SIP Call                                |
| 26025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A0563   | EU0202  |         |         | NOX SIP Call                                |
| 26025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B1534   | EU0026  |         |         | NOX SIP Call                                |
| 26025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B1548   | RG0452  |         |         | NOX SIP Call                                |
| 26025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B4072   | RG0058  |         |         | NOX SIP Call                                |
| 26027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A0749   | EU0088  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26027  | -9  | PM2_5 | -9   | 42.18 | 100 | 100 | -9  | A0749   | EU0088  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A0749   | EU0088  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | N2955   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | N2955   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | N2955   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | N2955   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | N2955   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | N2955   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N2955   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N2955   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N2955   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A0884   | EU0139  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A0884   | EU0162  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | A0884   | EU0139  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | PM2_5 | -9   | 73.35 | 100 | 100 | -9  | A0884   | EU0162  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A0884   | EU0139  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A0884   | EU0162  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B7192   | EU0159  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | N1315   | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | PM2_5 | -9   | 97.17 | 100 | 100 | -9  | B7192   | EU0159  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | PM2_5 | -9   | 99.66 | 100 | 100 | -9  | N1315   | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B7192   | EU0159  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N1315   | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A0998   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A0999   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | A0998   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | A0999   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A0998   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A0999   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A1178   | EU0471  |         |         | NOX SIP Call                                |
| 26049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A1178   | EU0472  |         |         | NOX SIP Call                                |
| 26049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A1178   | EU0473  |         |         | NOX SIP Call                                |
| 26049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B1606   | EU0346  |         |         | NOX SIP Call                                |
| 26049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | N3818   | EU0009  |         |         | NOX SIP Call                                |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1604   | EU0030  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1604   | EU0031  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1604   | EU0032  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1604   | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1606   | EU0340  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1610   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1610   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1610   | EU0027  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1611   | RG0017  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1604   | EU0030  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1604   | EU0031  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1604   | EU0032  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1604   | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B1606   | EU0340  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | B1610   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | B1610   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | B1610   | EU0027  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1611   | RG0017  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1604   | EU0030  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1604   | EU0031  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1604   | EU0032  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1604   | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1606   | EU0340  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1610   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1610   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1610   | EU0027  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1611   | RG0017  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26049  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B1606   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B4257   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B4257   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B4257   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B4257   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B4257   | EU0007  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B4257   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | B2873   | EU0035  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | B2873   | EU0036  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | B2873   | EU0035  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | B2873   | EU0036  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2873   | EU0035  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2873   | EU0036  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | K3249   | EU0529  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | K3249   | EU0530  |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 26065  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | K3249   | EU0531  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | K3249   | EU0532  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | K3249   | EU0529  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | K3249   | EU0530  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | K3249   | EU0531  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | K3249   | EU0532  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K3249   | EU0529  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K3249   | EU0530  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K3249   | EU0531  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K3249   | EU0532  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26065  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | A1641   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26065  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B1639   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26067  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | K2120   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | K2120   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | K2120   | EU0010  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | K2120   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | K2120   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | K2120   | EU0010  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K2120   | EU0008  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K2120   | EU0009  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | K2120   | EU0010  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B1678   | EU0032  |         |         | NOX SIP Call                                |
| 26077  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B1679   | RG0038  |         |         | NOX SIP Call                                |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0519  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0520  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0521  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0522  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0523  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0524  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B3610   | EU0519  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B3610   | EU0520  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0521  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0522  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0523  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B3610   | EU0524  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0519  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0520  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0521  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0522  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0523  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3610   | EU0524  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A2250   | EU0041  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B8603   | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | PM2_5 | -9   | 40.68 | 100 | 100 | -9  | A2250   | EU0041  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B8603   | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A2250   | EU0041  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B8603   | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | N0786   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26091  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | N0786   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N0786   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | N0780   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26095  | -9  | PM2_5 | -9   | 99.46 | 100 | 100 | -9  | N0780   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N0780   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26099  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A3569   | EU0031  |         |         | NOX SIP Call                                |
| 26099  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B2767   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26099  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B7248   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1821   | EU0018  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1821   | EU0019  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26101  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1821   | EU0018  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26101  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B1821   | EU0019  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1821   | EU0018  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1821   | EU0019  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26103  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | B1827   |         |         |         | MACT: Taconite Ore Processing               |
| 26103  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | B4885   |         |         |         | MACT: Taconite Ore Processing               |
| 26103  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | B1827   |         |         |         | MACT: Taconite Ore Processing               |
| 26103  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | B4885   |         |         |         | MACT: Taconite Ore Processing               |
| 26109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1855   | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1855   | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26109  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | B1855   | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26109  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | B1855   | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1855   | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1855   | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26111  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B6527   | RG0063  |         |         | NOX SIP Call                                |
| 26113  | -9  | PM10  | -9   | 96.19 | 100 | 100 | -9  | N1160   | EU0003  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26113  | -9  | PM2_5 | -9   | 97.39 | 100 | 100 | -9  | N1160   | EU0003  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N1160   | EU0003  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26115  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | B1743   | EU0056  |         |         | NOX SIP Call                                |
| 26115  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B4320   | EU0001  |         |         | NOX SIP Call                                |
| 26115  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B4320   | EU0001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26117  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | N3392   | RG0078  |         |         | NOX SIP Call                                |
| 26121  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A4203   | EU0025  |         |         | NOX SIP Call                                |
| 26121  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A4203   | EU0026  |         |         | NOX SIP Call                                |
| 26121  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | A4203   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26121  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | A4203   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26121  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | A4203   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26121  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | A4203   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A4203   | EU0025  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A4203   | EU0026  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B4032   | EU0046  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | B7227   | EU0077  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | B7227   | EU0079  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | B7227   | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B4032   | EU0046  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | B7227   | EU0077  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | B7227   | EU0079  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | B7227   | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B4032   | EU0046  |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 26125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B7227      | EU0077  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B7227      | EU0079  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B7227      | EU0080  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26125  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | A5260      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26125  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B4031      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26125  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | B7227      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26131  | -9  | PM10  | -9   | 98.97 | 100 | 100 | -9  | A5754      | EU0069  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1966      | EU0082  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26131  | -9  | PM2_5 | -9   | 89.20 | 100 | 100 | -9  | A5754      | EU0069  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26131  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | B1966      | EU0082  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A5754      | EU0069  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1966      | EU0082  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A5937      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B6001      | EU0057  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | A5937      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B6001      | EU0057  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A5937      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B6001      | EU0057  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A6175      | RG0293  |         |         | NOX SIP Call                                |
| 26145  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | A6175      | RG0293  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B1993      | EU0053  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B3606      | RG0099  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | A6175      | RG0293  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B1993      | EU0053  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B3606      | RG0099  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6175      | RG0293  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B1993      | EU0053  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B3606      | RG0099  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A6240      | RG0052  |         |         | NOX SIP Call                                |
| 26147  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B4282      | EU0057  |         |         | NOX SIP Call                                |
| 26147  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B6420      | EU0042  |         |         | NOX SIP Call                                |
| 26147  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | B6478      | RG0037  |         |         | NOX SIP Call                                |
| 26147  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A6240      | RG0052  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B2032      | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B6420      | EU0042  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | A6240      | RG0052  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | PM2_5 | -9   | 40.90 | 100 | 100 | -9  | B2032      | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | B6420      | EU0042  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6240      | RG0052  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2032      | EU0015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B6420      | EU0042  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26149  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A6380      | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26149  | -9  | PM2_5 | -9   | 99.42 | 100 | 100 | -9  | A6380      | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26149  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6380      | EU0033  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B2876      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B2876      | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B2876      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B2876      | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2876      | EU0022  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2876      | EU0023  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A6475      | EU0020  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | A6475      | EU0021  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | A6475      | EU0020  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | A6475      | EU0021  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6475      | EU0020  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | A6475      | EU0021  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B2875      | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | B2875      | EU0029  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B2875      | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | B2875      | EU0029  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | B2875      | EU0028  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26157  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | B2875      | EU0029  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A7051      | EU0010  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A7809      | RG0132  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A7809      | RG0133  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A8640      | EU0088  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A8640      | EU0097  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A8650      | RG0258  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A9831      | EU0066  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A9831      | EU0070  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A9831      | EU0109  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | A9831      | EU0158  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B2185      | EU0011  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B2185      | EU0012  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B2185      | EU0013  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B3683      | EU0059  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | B3683      | EU0060  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | M4199      | RG0096  |         |         | NOX SIP Call                                |
| 26163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | M4764      | RG0009  |         |         | NOX SIP Call                                |
| 26163  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | B2169      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | B3520      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | M4199      | RG0096  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26163  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | B2169      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | B3520      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | M4199      | RG0096  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26163  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | B2169      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | B3520      |         |         |         | MACT: Lime Manufacturing                    |
| 26163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | M4199      | RG0096  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26163  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | A8648      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26163  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | A8650      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26163  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | M4199      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26163  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | N0929      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26163  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | N2155      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 26165  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | N1395      | EU0004  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26165  | -9  | PM2_5 | -9   | 92.89 | 100 | 100 | -9  | N1395      | EU0004  |         |         | MACT: Industrial Boiler/Process Heater      |
| 26165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | N1395      | EU0004  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2700300222 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 27003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2700300222 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2700300222 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2700700019 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2700700019 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2700700019 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2705700002 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 2705700005 | EU100   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 2705700005 | EU101   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 99.89 | 100 | 100 | -9  | 2705700005 | EU108   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2705700005 | EU128   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2700700019 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2700700019 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2700700019 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 2705700002 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 66.40 | 100 | 100 | -9  | 2705700005 | EU100   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 66.40 | 100 | 100 | -9  | 2705700005 | EU101   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 2705700005 | EU108   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 2705700005 | EU128   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2700700019 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2700700019 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2700700019 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705700002 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705700005 | EU100   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705700005 | EU101   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705700005 | EU108   |         |         | MACT: Industrial Boiler/Process Heater |
| 27007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705700005 | EU128   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2700900011 | EU006   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2700900011 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 2700900011 | EU006   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2700900011 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | SO2   | -9   | 66.40 | 100 | 100 | -9  | 2700900011 | EU006   |         |         | MACT: Industrial Boiler/Process Heater |
| 27009  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2700900011 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2701700002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2701700002 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU015   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU016   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU017   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2701700002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2701700002 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU015   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU016   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU017   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2701700003 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700002 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700003 | EU015   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700003 | EU016   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700003 | EU017   |         |         | MACT: Industrial Boiler/Process Heater |
| 27017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2701700003 | EU018   |         |         | MACT: Industrial Boiler/Process Heater |
| 27023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2702300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2702300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2702300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2702700001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2702700001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2702700001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2702700001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2702700001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2702700001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2702700001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2703100002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2703100002 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2703100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2703100002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2703100002 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703100001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703100001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703100002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703100002 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2703500002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | PM10  | -9   | 40.60 | 100 | 100 | -9  | 2703500031 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 2703500002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2703500031 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703500002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703500031 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM10  | -9   | 99.97 | 100 | 100 | -9  | 2703700003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2703700003 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2703700003 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2703700003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2703700003 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2703700003 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703700003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703700003 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2703700003 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27049  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2704900007 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27049  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2704900007 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 27049  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2704900007 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27049  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2704900007 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2704900007 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2704900007 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2705300015 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2705300015 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 2705300015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2705301050 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2705301050 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU009   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2705301050 | EU033   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2705301050 | EU034   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2705301050 | EU037   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2705300015 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2705300015 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2705300015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2705301050 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2705301050 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.50 | 100 | 100 | -9  | 2705301050 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.50 | 100 | 100 | -9  | 2705301050 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 2705301050 | EU009   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 2705301050 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU033   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU034   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 2705301050 | EU037   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2705300015 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2705300015 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705300015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2705301050 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU008   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU009   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU033   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU034   |         |         | MACT: Industrial Boiler/Process Heater |
| 27053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2705301050 | EU037   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2706100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2706100001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2706100013 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2706100016 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700063 |         |         |         | MACT: Taconite Ore Processing          |
| 27061  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2706100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2706100001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2706100004 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2706100013 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2706100016 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700063 |         |         |         | MACT: Taconite Ore Processing          |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100001 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100004 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100004 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 2706100004 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100013 | EU005   |         |         | MACT: Industrial Boiler/Process Heater |
| 27061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706100016 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27067  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2706700005 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2706700005 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2706700005 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27071  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2707100002 | EU430   |         |         | MACT: Industrial Boiler/Process Heater |
| 27071  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2707100002 | EU430   |         |         | MACT: Industrial Boiler/Process Heater |
| 27071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2707100002 | EU430   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2707500001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2707500003 |         |         |         | MACT: Taconite Ore Processing          |
| 27075  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2707500003 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2707500003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2707500019 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2707500001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2707500003 |         |         |         | MACT: Taconite Ore Processing          |
| 27075  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2707500003 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2707500003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 2707500019 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2707500001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2707500003 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2707500003 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2707500019 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27085  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2708500016 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27085  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 2708500016 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2708500016 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2708700005 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2708700005 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2708700005 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2709700019 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2709700019 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2709700019 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2711100051 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2711100051 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711100051 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 27119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2711900001 | EU005   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2711900002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2711900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2711900002 | EU008   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2711900002 | EU009   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2711900016 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2711900001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2711900001 | EU005   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2711900002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2711900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2711900002 | EU008   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2711900002 | EU009   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2711900016 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900001 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900001 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2711900001 | EU005   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900002 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900002 | EU008   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900002 | EU009   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2711900016 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2712300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 2712300012 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712300012 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712300012 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712300012 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712300012 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27123  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 2712300039 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 27129  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2712900014 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2712900014 | EU013   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2712900014 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2712900014 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2712900014 | EU013   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2712900014 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712900014 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712900014 | EU013   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2712900014 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2713500002 | EU012   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2713500002 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2713500002 | EU015   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2713500002 | EU012   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2713500002 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | PM2_5 | -9   | 98.50 | 100 | 100 | -9  | 2713500002 | EU015   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713500002 | EU012   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713500002 | EU014   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713500002 | EU015   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700005 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700009 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700013 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700013 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700015 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2713700022 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2713700022 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2713700022 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 2713700022 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700030 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700030 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2713700031 | EU034   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 2713700031 | EU035   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700032 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700061 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700062 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2713700083 | EU006   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 2713700083 | EU007   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700098 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700101 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 99.76 | 100 | 100 | -9  | 2713700112 | EU041   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 62.00 | 100 | 100 | -9  | 2713700113 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 2713700113 | EU042   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700170 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700171 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700172 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2713700173 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700005 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700009 |         |         |         | MACT: Taconite Ore Processing               |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700013 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700013 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700015 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 99.80 | 100 | 100 | -9  | 2713700022 | EU001   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 99.80 | 100 | 100 | -9  | 2713700022 | EU002   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 99.80 | 100 | 100 | -9  | 2713700022 | EU003   |         |         | MACT: Industrial Boiler/Process Heater      |
| 27137  | -9  | PM2_5 | -9   | 99.80 | 100 | 100 | -9  | 2713700022 | EU004   |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 27137  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2713700027 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700030 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700030 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 2713700031 | EU034   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 2713700031 | EU035   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700032 |         |         |         | MACT: Taconite Ore Processing          |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700061 |         |         |         | MACT: Taconite Ore Processing          |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700062 |         |         |         | MACT: Taconite Ore Processing          |
| 27137  | -9  | PM2_5 | -9   | 99.48 | 100 | 100 | -9  | 2713700083 | EU006   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 99.48 | 100 | 100 | -9  | 2713700083 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700098 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700101 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 2713700112 | EU041   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 62.00 | 100 | 100 | -9  | 2713700113 |         |         |         | MACT: Taconite Ore Processing          |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700113 | EU042   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700170 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700171 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700172 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2713700173 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 2713700013 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 2713700013 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700015 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700015 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700022 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700022 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700022 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700022 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700027 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700027 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700027 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700030 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700030 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700031 | EU034   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700031 | EU035   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700083 | EU006   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700083 | EU007   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700098 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700101 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2713700112 | EU041   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 32.80 | 100 | 100 | -9  | 2713700113 | EU042   |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700170 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700171 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700172 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2713700173 | BO0002  |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 2714500008 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2714500102 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2714500008 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2714500008 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2714500102 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2714500008 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2714500008 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2714500008 | EU004   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2714500008 | EU010   |         |         | MACT: Industrial Boiler/Process Heater |
| 27145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2714500102 | EU001   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2716300001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2716300001 | EU011   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2716300001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2716300001 | EU011   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2716300001 | EU003   |         |         | MACT: Industrial Boiler/Process Heater |
| 27163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2716300001 | EU011   |         |         | MACT: Industrial Boiler/Process Heater |
| 27169  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 2716900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27169  | -9  | PM2_5 | -9   | 99.70 | 100 | 100 | -9  | 2716900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2716900002 | EU002   |         |         | MACT: Industrial Boiler/Process Heater |
| 27171  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2717100064 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27171  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2717100064 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 27171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2717100064 | BO0006  |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800100018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800100018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800100018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800300002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800300002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800300026 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800300002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800300026 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800300026 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800300002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800300026 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800300026 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2800500013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800500013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800500013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2800500013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 28013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801300002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801300002 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801300032 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801300032 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801300002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801300002 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801300032 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801300032 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801300002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801300002 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801300032 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801300032 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2801900005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801900005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2801900005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802100004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802100004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802100004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802100004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802100007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802100004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802100004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802100007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802100007 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802100007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2802900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2802900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2802900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2803300041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2803300041 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2803300041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2803300041 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2803300041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2803300041 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 28035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2803500027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2803500027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2803500027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2803700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2803700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2803700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300010 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804300016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300010 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804300016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300010 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804300016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804500018 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 28045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804500018 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 28045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804500018 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 28049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2804900006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2804900006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2804900006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2806100019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2806100019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2806100019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2806100019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2806100019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2806100019 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2806300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2806300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2806300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807100013 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807100013 | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807100013 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807100013 | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807100013 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807100013 | 027     |         |         | MACT: Industrial Boiler/Process Heater |
| 28075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807500012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 28075  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807500012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807500012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807700007 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807700007 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2807700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807700007 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807700020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2807700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808100053 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808100053 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808100053 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28083  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808300001 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808700004 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808700017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808700004 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808700017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808700004 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808700017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808700020 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808900035 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2808900035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808900035 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2808900035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808900035 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2808900035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2809100013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28091  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2809100013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2809100013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2809900004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2809900012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2809900004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2809900012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2809900004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2809900012 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810100004 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810100008 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810100004 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810100008 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810100004 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810100008 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810300013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810300013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810300013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810300013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810300013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28103  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810300013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810900005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2810900005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2810900005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2810900005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2811100003 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 28111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2811100003 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 28111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2811100003 | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 28113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2811300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2811300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2811300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2811700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28117  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2811700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28117  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2811700020 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2812900002 | 022     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2812900002 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2812900002 | 022     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2812900002 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2812900002 | 022     |         |         | MACT: Industrial Boiler/Process Heater |
| 28129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2812900002 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2813100002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2813100002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 28131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2813100003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 28131  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2813100002 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28131  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2813100003 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28131  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2813100003 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28131  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2813100003 | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28147  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2814700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28147  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2814700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28147  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2814700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2814900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 2814900014 |         |         |         | MACT: Lime Manufacturing   |
| 28149  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2814900015 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2814900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2814900065 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2814900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 2814900014 |         |         |         | MACT: Lime Manufacturing   |
| 28149  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2814900015 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2814900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2814900065 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2814900004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 2814900014 |         |         |         | MACT: Lime Manufacturing   |
| 28149  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2814900015 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2814900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28149  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2814900065 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815300004 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815300014 | 008     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815300004 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815300014 | 008     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815300004 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28153  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815300014 | 008     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815500004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815500008 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815500004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815500008 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815500004 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28155  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815500008 | 007     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2815700006 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2815700006 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28157  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2815700006 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2816300043 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2816300003 | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2816300043 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2816300003 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2816300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2816300003 | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 28163  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2816300043 | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29007  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003       | 1567    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29007  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003       | 1567    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29007  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 1567    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29009  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030       | 238     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29021  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0018       | 2955    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29021  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0018       | 2955    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29021  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0018       | 2955    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 3896    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29029  | -9       | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0002       | 3896    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 3896    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0010       | 4304    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0010       | 4305    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0010       | 4304    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010       | 4305    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 4304    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29031  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 4305    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29037  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0025       | 4709    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29037  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0025       | 4709    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29037  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0025       | 4709    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29043  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0004       | 5058    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29043  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0004       | 5058    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29043  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 5058    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29047  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0019       |         |         |         | MACT: Auto & Light Duty Truck Manufacturing                      |
| 29053  | -9       | PM10  | -9   | 59.59 | 100 | 100 | -9  | 0003       | 6345    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29053  | -9       | PM10  | -9   | 59.59 | 100 | 100 | -9  | 0003       | 6346    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29053  | -9       | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0003       | 6345    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29053  | -9       | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0003       | 6346    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29053  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 6345    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29053  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 6346    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29071  | 30101403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |            |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29071  | 30101500 | VOC   | -9   | 95.00 | 100 | 100 | -9  |            |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29077  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0001       |         |         |         | MACT: Lime Manufacturing   |
| 29077  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0013       | 1231    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29077  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0001       |         |         |         | MACT: Lime Manufacturing   |
| 29077  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0013       | 1231    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29077  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0001       |         |         |         | MACT: Lime Manufacturing   |
| 29077  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 1231    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0005       | 8241    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009       | 8223    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0046       | 8057    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0046       | 8059    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0046       | 8060    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005       | 8241    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009       | 8223    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0046       | 8057    |         |         | MACT: Industrial Boiler/Process Heater                           |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 29091  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0046    | 8059    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0046    | 8060    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 8241    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | 8223    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0046    | 8057    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0046    | 8059    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29091  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0046    | 8060    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008    | 8387    |         |         | NOX SIP Call   |
| 29093  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008    | 8390    |         |         | NOX SIP Call   |
| 29093  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009    | 8360    |         |         | NOX SIP Call   |
| 29093  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 8387    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 8390    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009    | 8360    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 8387    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 8390    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009    | 8360    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 8387    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 8390    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29093  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | 8360    |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | PM10  | -9   | 93.54 | 100 | 100 | -9  | 0002    | 11750   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | PM10  | -9   | 93.54 | 100 | 100 | -9  | 0002    | 11753   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 11750   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 11753   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | SO2   | -9   | 52.00 | 100 | 100 | -9  | 0002    | 11750   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 11753   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29099  | 30101403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29099  | 30101500 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29107  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 12621   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29107  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 12621   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29107  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 12621   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 98.20 | 100 | 100 | -9  | 0001    | 13613   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0001    | 13614   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13687   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13688   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13689   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM10  | -9   | 99.94 | 100 | 100 | -9  | 0001    | 13691   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0001    | 13613   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0001    | 13614   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13687   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13688   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 13689   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0001    | 13691   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13613   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13614   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13687   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13688   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13689   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29127  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 13691   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29145  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 15183   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29145  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 15183   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29145  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 15183   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | PM10  | -9   | 95.52 | 100 | 100 | -9  | 0005    | 15437   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | PM10  | -9   | 92.20 | 100 | 100 | -9  | 0005    | 15438   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 0005    | 15437   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005    | 15438   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 15437   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29147  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 15438   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29157  | -9       | PM10  | -9   | 59.02 | 100 | 100 | -9  | 0020    | 15800   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29157  | -9       | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0020    | 15800   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29157  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 15800   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 16418   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM10  | -9   | 85.00 | 100 | 100 | -9  | 0006    | 16419   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM10  | -9   | 85.00 | 100 | 100 | -9  | 0006    | 16420   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0006    | 16418   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 16419   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 16420   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 16418   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 16419   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29161  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 16420   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29163  | -9       | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0001    | 16745   |         |         | NOX SIP Call   |
| 29173  | -9       | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0001    | 17364   |         |         | NOX SIP Call   |
| 29183  | 30101403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29183  | 30101500 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29186  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing   |
| 29186  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0035    |         |         |         | MACT: Lime Manufacturing   |
| 29186  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing   |
| 29186  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0035    |         |         |         | MACT: Lime Manufacturing   |
| 29186  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing   |
| 29186  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0035    |         |         |         | MACT: Lime Manufacturing   |
| 29189  | -9       | PM10  | -9   | 92.08 | 100 | 100 | -9  | 0230    | 21068   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29189  | -9       | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0230    | 21068   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29189  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0230    | 21068   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29189  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing                      |
| 29189  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0015    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing                      |
| 29189  | -9       | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0231    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing                      |
| 29189  | 30101403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29189  | 30101500 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29201  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0021    | 22233   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29201  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0021    | 22234   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29201  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0021    | 22233   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29201  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0021    | 22234   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0021    | 22233   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0021    | 22234   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29203  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0005    | 22307   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29203  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005    | 22307   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 22307   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29207  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 22575   |         |         | MACT: Industrial Boiler/Process Heater                           |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description  |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 29207  | -9       | PM10  | -9   | 67.00 | 100 | 100 | -9  | 0019    | 22501   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29207  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 22575   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29207  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0019    | 22501   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29207  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 22575   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29207  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019    | 22501   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29213  | -9       | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0007    | 22787   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29213  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0007    | 22787   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29213  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 22787   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29215  | -9       | PM10  | -9   | 79.00 | 100 | 100 | -9  | 0060    | 22875   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29215  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0060    | 22875   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29215  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0060    | 22875   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 20274   |         |         | NOX SIP Call   |
| 29510  | -9       | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 20276   |         |         | NOX SIP Call   |
| 29510  | -9       | PM10  | -9   | 97.35 | 100 | 100 | -9  | 0003    | 20274   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 20276   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 97.35 | 100 | 100 | -9  | 0003    | 20282   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 97.35 | 100 | 100 | -9  | 0003    | 20284   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 97.60 | 100 | 100 | -9  | 0017    | 9       |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 92.06 | 100 | 100 | -9  | 0040    | 20054   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 92.08 | 100 | 100 | -9  | 0040    | 20055   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM10  | -9   | 92.08 | 100 | 100 | -9  | 0040    | 20056   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0003    | 20274   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 98.20 | 100 | 100 | -9  | 0003    | 20276   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 0003    | 20282   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 0003    | 20284   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0017    | 9       |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0040    | 20054   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0040    | 20055   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0040    | 20056   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 20274   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 20276   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 20282   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 20284   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017    | 9       |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0040    | 20054   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0040    | 20055   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0040    | 20056   |         |         | MACT: Industrial Boiler/Process Heater                           |
| 29510  | 30101403 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 29510  | 30101500 | VOC   | -9   | 95.00 | 100 | 100 | -9  |         |         |         |         | St. Louis SIP: Industrial Surface Coating Manufacturing Controls |
| 30007  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing   |
| 30007  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing   |
| 30007  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0002    |         |         |         | MACT: Lime Manufacturing   |
| 30013  | -9       | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0016    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30013  | -9       | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0016    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30013  | -9       | SO2   | -9   | 71.58 | 100 | 100 | -9  | 0016    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 89.57 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 99.49 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 88.18 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 003     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30029  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | PM10  | -9   | 84.08 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0005    | 021     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0005    | 021     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30031  | -9       | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0005    | 021     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30043  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30043  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30043  | -9       | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM10  | -9   | 49.44 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM10  | -9   | 97.39 | 100 | 100 | -9  | 0004    | 011     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0004    | 011     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 011     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30053  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30061  | -9       | PM10  | -9   | 49.44 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30061  | -9       | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30061  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM10  | -9   | 60.87 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM10  | -9   | 60.87 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0004    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 023     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0004    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 023     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater                           |
| 30063  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 011     |         |         | MACT: Industrial Boiler/Process Heater                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 30063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 30063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 30063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006       | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 30077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 30077  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0002       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 30077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM10  | -9   | 96.74 | 100 | 100 | -9  | 0002       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM10  | -9   | 96.74 | 100 | 100 | -9  | 0002       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM10  | -9   | 96.77 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM2.5 | -9   | 94.09 | 100 | 100 | -9  | 0002       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM2.5 | -9   | 94.09 | 100 | 100 | -9  | 0002       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | PM2.5 | -9   | 94.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | SO2   | -9   | 93.28 | 100 | 100 | -9  | 0002       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | SO2   | -9   | 88.48 | 100 | 100 | -9  | 0002       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30083  | -9  | SO2   | -9   | 99.33 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 0007       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM10  | -9   | 96.84 | 100 | 100 | -9  | 0008       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM10  | -9   | 99.77 | 100 | 100 | -9  | 0008       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 0010       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM2.5 | -9   | 99.99 | 100 | 100 | -9  | 0007       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM2.5 | -9   | 94.00 | 100 | 100 | -9  | 0008       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM2.5 | -9   | 99.40 | 100 | 100 | -9  | 0008       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 0010       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | SO2   | -9   | 84.35 | 100 | 100 | -9  | 0007       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0008       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0008       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM10  | -9   | 97.31 | 100 | 100 | -9  | 0007       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM10  | -9   | 97.31 | 100 | 100 | -9  | 0007       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM10  | -9   | 97.31 | 100 | 100 | -9  | 0007       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0015       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM10  | -9   | 99.53 | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM2.5 | -9   | 94.30 | 100 | 100 | -9  | 0007       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM2.5 | -9   | 94.30 | 100 | 100 | -9  | 0007       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM2.5 | -9   | 94.30 | 100 | 100 | -9  | 0007       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM2.5 | -9   | 97.00 | 100 | 100 | -9  | 0015       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | PM2.5 | -9   | 99.40 | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | SO2   | -9   | 65.81 | 100 | 100 | -9  | 0007       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | SO2   | -9   | 65.81 | 100 | 100 | -9  | 0007       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | SO2   | -9   | 65.81 | 100 | 100 | -9  | 0007       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 30111  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 0023       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 31001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00044      | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 31001  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00044      | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 31001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00044      | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 31013  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 00012      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31013  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00012      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31025  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00032      |         |         |         | MACT: Lime Manufacturing               |
| 31025  | -9  | PM2.5 | -9   | 28.00 | 100 | 100 | -9  | 00032      |         |         |         | MACT: Lime Manufacturing               |
| 31025  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00032      |         |         |         | MACT: Lime Manufacturing               |
| 31109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0123       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 31109  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 0123       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 31109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0123       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00003      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 31159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003      | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 33001  | -9  | PM10  | -9   | 49.44 | 100 | 100 | -9  | 3300100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 33001  | -9  | PM2.5 | -9   | 64.46 | 100 | 100 | -9  | 3300100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 33001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3300100027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | PM10  | -9   | 95.70 | 100 | 100 | -9  | 3300700001 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 3300700006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | PM2.5 | -9   | 94.00 | 100 | 100 | -9  | 3300700001 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | PM2.5 | -9   | 90.57 | 100 | 100 | -9  | 3300700006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3300700001 | 014     |         |         | MACT: Industrial Boiler/Process Heater |
| 33007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3300700006 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3301100070 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 3301100109 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 3301100070 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 3301100109 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3301100070 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 33011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3301100109 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 70497      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 70497      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 70497      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 70497      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 70497      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 70497      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 02100      | 8       |         |         | NOX SIP Call                           |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00122      | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263      | 11      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLTT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00263   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 1201    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 02101   | 1901    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 2101    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 3001    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5003    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5007    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5009    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5010    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5011    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 26      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 27      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 02102   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00122   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 00263   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 1201    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 1901    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 2101    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 3001    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5003    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5009    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5010    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02101   | 5011    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 26      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 27      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 02102   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00263   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 1201    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 1901    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 2101    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 3001    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5003    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5007    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5009    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5010    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02101   | 5011    |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 26      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 27      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 02102   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45077   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45077   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45077   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45077   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45835   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45835   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 45835   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 45077   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 45077   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 45835   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 45835   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 45835   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45077   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45077   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45077   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45077   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 45835   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 50163   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 50163   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 50519   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 50519   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 51607   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 51607   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 50163   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 50163   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 50519   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 50519   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 51607   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 51607   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 50163   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 50163   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 50519   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 50519   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 51607   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 51607   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75478   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75478   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75478   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75478   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75479   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75479   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75495   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1004    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1007    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75499   | 901     |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75478   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75478   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75478   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75478   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75479   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75479   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75495   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1004    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75499   | 1007    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75499   | 901     |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75478   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75478   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75478   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75478   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75479   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75479   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75495   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75499   | 1002    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75499   | 1004    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75499   | 1005    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75499   | 1007    |         |         | MACT: Industrial Boiler/Process Heater |
| 34011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75499   | 901     |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 07627   | 1       |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 07349   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 07349   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 07349   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 55778   | 1       |         |         | NOX SIP Call                           |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55057   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55057   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55180   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55779   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55779   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55779   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55779   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 38      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 41      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55780   | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55796   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 55796   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55796   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 55796   | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55796   | 52      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 55796   | 60      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55057   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55180   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55779   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55779   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55779   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55779   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 38      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 41      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55780   | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 52      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 55796   | 60      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55057   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55057   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55180   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55779   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55779   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55779   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55779   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 41      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55780   | 48      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55796   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55796   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55796   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 95.20 | 100 | 100 | -9  | 55796   | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55796   | 52      |         |         | MACT: Industrial Boiler/Process Heater |
| 34015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 55796   | 60      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 12048   | 1       |         |         | NOX SIP Call                           |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10320   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10320   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10320   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 26      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 27      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 34      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 38      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 40      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 41      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 42      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 44      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 45      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 46      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 49      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10759   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11421   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11421   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11421   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12099   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12195   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12195   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12195   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12233   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12233   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10320   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10320   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10320   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10759   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10759   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10759   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | PM2 5 | -9   | 40.00 | 100 | 100 | -9  | 10759   | 17      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10759   | 46      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10759   | 49      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10759   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10759   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11421   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11421   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11421   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12099   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12195   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12195   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12195   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12233   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12233   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12233   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2210    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2211    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2212    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2213    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2315    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2316    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2317    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2318    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2323    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2406    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2420    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 2501    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80062   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2210    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2211    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2212    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2213    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2315    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2316    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2317    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2318    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2323    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2406    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80002   | 2420    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 2501    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80062   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2210    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2211    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2212    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2213    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2315    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2316    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2317    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2318    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2323    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2406    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80002   | 2420    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 2501    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 2501    |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80062   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 60342   | 2       |         |         | NOX SIP Call                           |
| 34021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 60342   | 3       |         |         | NOX SIP Call                           |
| 34021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 61088   | 1       |         |         | NOX SIP Call                           |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61051   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61052   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61053   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61053   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 61053   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61051   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61052   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61053   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61053   | 2       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 61053   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61051   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61052   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61053   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61053   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 61053   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 17823   | 5305    |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 17824   | 1       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 17958   | 1       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 18045   | 1       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 18045   | 2       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 18061   | 1       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 18064   | 2       |         |         | NOX SIP Call                           |
| 34023  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 18064   | 501     |         |         | NOX SIP Call                           |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 15621   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 300     |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 32      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 35      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 16313   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 400     |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 600501  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 605901  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 624601  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 628001  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 628002  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 830201  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 830701  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 832101  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 832901  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833001  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833101  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833201  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 841901  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 16313   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17901   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17901   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17901   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17913   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 17913   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17913   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17913   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 17913   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 17994   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18061   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18064   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18070   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18070   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18070   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18070   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 18101   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 15621   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 15621   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 15621   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 15621   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 300     |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 32      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 35      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 400     |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 600501  |         |         | MACT: Industrial Boiler/Process Heater |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 605901  |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 624601  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 628001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 628002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 830201  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 830701  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 832101  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 832901  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833101  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 833201  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 841901  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 16313   | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17901   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17901   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17901   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17913   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17913   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17913   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17913   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17913   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17994   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17994   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17994   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 17994   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18061   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18064   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18070   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18070   | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18070   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18070   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 18101   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 15621   | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 14      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 16      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 17      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 18      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 19      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 22      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 23      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 30      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 300     |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 32      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 34      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 35      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 37      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 39      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 400     |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 600501  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 605901  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 624601  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 624801  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 628001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 628002  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 830201  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 830701  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 832101  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 832901  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 833001  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 833101  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 833201  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 841901  |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 16313   | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17901   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17901   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17901   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17913   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17913   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17913   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17913   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17913   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 17994   | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18061   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18064   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18070   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18070   | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18070   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18070   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 18101   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34023  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 18069   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 10      |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 34      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 38      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 68      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21140   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 34      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 38      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 68      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 21140   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 34      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 38      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 39      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 68      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 70      |         |         | MACT: Industrial Boiler/Process Heater |
| 34025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21140   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 26233   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 26233   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 26233   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 26233   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 26233   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 26233   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 26233   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 26233   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 26233   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 26233   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 30345   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 30345   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31061   | 960001  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31061   | 960006  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31544   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31544   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31544   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31544   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 30345   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 30345   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31061   | 960001  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31061   | 960006  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31544   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31544   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31544   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31544   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 30345   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 30345   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31061   | 960001  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31061   | 960006  |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31544   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31544   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31544   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31544   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 65494   | 1       |         |         | NOX SIP Call                           |
| 34033  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 65495   | 5       |         |         | NOX SIP Call                           |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65482   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65482   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65482   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 37      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 65500   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65482   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65482   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 65500   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65482   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65482   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65482   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65482   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 65500   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41741   | 2       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41767   | 1       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41805   | 3       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41805   | 4       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41809   | 1       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41809   | 2       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41809   | 3       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41809   | 4       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41809   | 5       |         |         | NOX SIP Call                           |
| 34039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 41810   | 3       |         |         | NOX SIP Call                           |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 40543   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41682   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41724   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41724   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41724   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41735   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41808   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41808   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41810   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41811   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41811   | 97      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 37      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 41813   | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 40543   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 10      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682   | 4       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682      | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682      | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682      | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41682      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41724      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41724      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41724      | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41735      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41808      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41808      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41810      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41811      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41811      | 97      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 16      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 37      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 41813      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 40543      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 15      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 16      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41682      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41724      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41724      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41724      | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 7       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41735      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41808      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41808      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41810      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41811      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41811      | 97      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 10      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 16      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 24      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 37      |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 41813      | 9       |         |         | MACT: Industrial Boiler/Process Heater      |
| 34039  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 41812      |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 35007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0032       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0032       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35031  | -9  | SO2   | -9   | 93.76 | 100 | 100 | -9  | 0032       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0902       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0902       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0902       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0902       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0902       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0902       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0902       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0902       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0902       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0902       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0902       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 35045  | -9  | SO2   | -9   | 76.00 | 100 | 100 | -9  | 0902       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 36001  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 4012400001 | U43101  |         |         | NOX SIP Call                                |
| 36007  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 7034800027 | U0002A  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36007  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 7034800027 | U0002A  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 7034800027 | U0002A  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 7034800027 | U0004A  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 9060800027 | U00011  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 9062400018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 9062800018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 9060800027 | U00011  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 9062400018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 9062800018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater      |
| 36013  | -9  | SO2   | -9   | 3.96  | 100 | 100 | -9  | 9060800027 | U00011  |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 36013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 9062400018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater |
| 36013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 9062800018 | B00404  |         |         | MACT: Industrial Boiler/Process Heater |
| 36025  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 4123000019 | U10021  |         |         | MACT: Industrial Boiler/Process Heater |
| 36025  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 4123000019 | U10021  |         |         | MACT: Industrial Boiler/Process Heater |
| 36025  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 4123000019 | U10021  |         |         | MACT: Industrial Boiler/Process Heater |
| 36025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4123000019 | U1003A  |         |         | MACT: Industrial Boiler/Process Heater |
| 36029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9140900003 | U12704  |         |         | NOX SIP Call                           |
| 36029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9140900003 | U12705  |         |         | NOX SIP Call                           |
| 36029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9140900003 | U12706  |         |         | NOX SIP Call                           |
| 36029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9146400113 | U00001  |         |         | NOX SIP Call                           |
| 36029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 9140200465 | 3BOILR  |         |         | MACT: Industrial Boiler/Process Heater |
| 36029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 9140200465 | 3BOILR  |         |         | MACT: Industrial Boiler/Process Heater |
| 36029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 9140200465 | 3BOILR  |         |         | MACT: Industrial Boiler/Process Heater |
| 36031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 5154800008 | U00044  |         |         | NOX SIP Call                           |
| 36039  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 4192600021 | U00K18  |         |         | NOX SIP Call                           |
| 36039  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 4192200015 | EIC001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 6226000018 | U00215  |         |         | NOX SIP Call                           |
| 36045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 6226000018 | U00315  |         |         | NOX SIP Call                           |
| 36045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6226000018 | U00215  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6226000018 | U00315  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6226000018 | U00215  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6226000018 | U00315  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6226000018 | U00215  |         |         | MACT: Industrial Boiler/Process Heater |
| 36045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6226000018 | U00315  |         |         | MACT: Industrial Boiler/Process Heater |
| 36047  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2610500301 | U00001  |         |         | NOX SIP Call                           |
| 36049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6233600002 | UFAC01  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6233800012 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6239900009 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6233600002 | UFAC01  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6233800012 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6239900009 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 6233600002 | UFAC01  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6233800012 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6239900009 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 8261400205 | U00015  |         |         | NOX SIP Call                           |
| 36055  | -9  | PM10  | -9   | 39.39 | 100 | 100 | -9  | 8261400205 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 8261400205 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 8261400315 | A00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 8261400205 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 8261400315 | A00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | SO2   | -9   | 3.93  | 100 | 100 | -9  | 8261400205 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 8261400205 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 8261400315 | A00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36061  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2620100005 | U00001  |         |         | NOX SIP Call                           |
| 36063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9291100030 | U08001  |         |         | NOX SIP Call                           |
| 36063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 9292600016 | U3GTDB  |         |         | NOX SIP Call                           |
| 36063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 9291100113 | UR1B02  |         |         | MACT: Industrial Boiler/Process Heater |
| 36063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 9291100113 | UR1B02  |         |         | MACT: Industrial Boiler/Process Heater |
| 36063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 9291100113 | UR1B02  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6302000024 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6302000024 | U00016  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 6302600012 | U00007  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6302000024 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6302000024 | U00016  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 6302600012 | U00007  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 6302000024 | U00015  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6302000024 | U00016  |         |         | MACT: Industrial Boiler/Process Heater |
| 36065  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 6302600012 | U00007  |         |         | MACT: Industrial Boiler/Process Heater |
| 36067  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 7313600002 | U01000  |         |         | NOX SIP Call                           |
| 36067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 7313800015 | 000002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 7313800015 | 000002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36067  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 7313800015 | 000002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36089  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 6402600001 | 4COMBU  |         |         | NOX SIP Call                           |
| 36091  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 5412600007 | U00016  |         |         | NOX SIP Call                           |
| 36097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 8443200001 | U00018  |         |         | NOX SIP Call                           |
| 36097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 8442400001 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 8442400001 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 8442400001 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 7500700030 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 7500700030 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 7500700030 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 7500700030 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 7500700030 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 7500700030 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00003  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3514800084 | U00003  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3514800084 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3514800084 | U00002  |         |         | MACT: Industrial Boiler/Process Heater |
| 36111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3514800084 | U00003  |         |         | MACT: Industrial Boiler/Process Heater |
| 36113  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 5520500005 | U00009  |         |         | NOX SIP Call                           |
| 36113  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 5520500013 | U1070N  |         |         | NOX SIP Call                           |
| 36113  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 5520500013 | U1070S  |         |         | NOX SIP Call                           |
| 36113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 5520500005 | U00011  |         |         | MACT: Industrial Boiler/Process Heater |
| 36113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 5520500005 | U00011  |         |         | MACT: Industrial Boiler/Process Heater |
| 36113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 5520500005 | U00011  |         |         | MACT: Industrial Boiler/Process Heater |
| 36119  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3551800214 | U00021  |         |         | NOX SIP Call                           |
| 36121  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 9563200007 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36121  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 9563200007 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 36121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 9563200007 | U00001  |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3700100237 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3700100237 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3700100237 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3700100249 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3700100237 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3700100237 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3700100237 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3700100249 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700100237 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700100237 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700100237 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700100249 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3700300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM10  | -9   | 80.20 | 100 | 100 | -9  | 3700300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3700300034 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3700300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | 3700300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3700300034 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700300005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700300034 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3700900024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3700900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3700900053 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3700900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3700900066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3700900024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3700900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3700900053 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3700900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3700900066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700900024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700900024 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700900053 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700900053 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3700900066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3701500015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM10  | -9   | 85.60 | 100 | 100 | -9  | 3701500029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3701500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3701500015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3701500029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 3701500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3701500015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3701500029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3701500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3701700009 | 001     |         |         | NOX SIP Call                           |
| 37017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3701700043 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37017  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3701700043 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3701700043 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3701900060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3701900060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3701900060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0724       | 001     |         |         | NOX SIP Call                           |
| 37021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0724       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0724       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | PM10  | -9   | 98.85 | 100 | 100 | -9  | 0724       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0724       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0724       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0724       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0724       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0724       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0724       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3702300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3702300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 89.20 | 100 | 100 | -9  | 3702300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3702300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3702300017 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 93.04 | 100 | 100 | -9  | 3702300018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3702300018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 72.98 | 100 | 100 | -9  | 3702300019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 86.80 | 100 | 100 | -9  | 3702300021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3702300022 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 73.48 | 100 | 100 | -9  | 3702300031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 80.38 | 100 | 100 | -9  | 3702300031 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 73.48 | 100 | 100 | -9  | 3702300031 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 64.00 | 100 | 100 | -9  | 3702300037 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 74.94 | 100 | 100 | -9  | 3702300060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 62.52 | 100 | 100 | -9  | 3702300060 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM10  | -9   | 84.64 | 100 | 100 | -9  | 3702300074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3702300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300017 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3702300022 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3702300031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300031 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3702300031 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300037 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300060 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3702300074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300017 | 005     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300018 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300019 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300022 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300031 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300031 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300037 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300060 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702300074 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3702500113 | 002     |         |         | NOX SIP Call                           |
| 37025  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3702500113 | 003     |         |         | NOX SIP Call                           |
| 37025  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9  | 3702500113 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | PM10  | -9   | 98.02 | 100 | 100 | -9  | 3702500113 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | PM2.5 | -9   | 99.00 | 100 | 100 | -9  | 3702500113 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | PM2.5 | -9   | 98.80 | 100 | 100 | -9  | 3702500113 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702500113 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702500113 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3702700007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 79.73 | 100 | 100 | -9  | 3702700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 79.73 | 100 | 100 | -9  | 3702700007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 79.73 | 100 | 100 | -9  | 3702700007 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 79.73 | 100 | 100 | -9  | 3702700007 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 79.73 | 100 | 100 | -9  | 3702700007 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 80.35 | 100 | 100 | -9  | 3702700008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3702700008 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 80.20 | 100 | 100 | -9  | 3702700008 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 71.38 | 100 | 100 | -9  | 3702700013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 80.08 | 100 | 100 | -9  | 3702700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 80.38 | 100 | 100 | -9  | 3702700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 71.38 | 100 | 100 | -9  | 3702700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 82.30 | 100 | 100 | -9  | 3702700017 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 82.30 | 100 | 100 | -9  | 3702700017 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 82.30 | 100 | 100 | -9  | 3702700017 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 71.38 | 100 | 100 | -9  | 3702700017 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3702700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3702700026 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 83.60 | 100 | 100 | -9  | 3702700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 83.60 | 100 | 100 | -9  | 3702700027 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9  | 3702700041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9  | 3702700041 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3702700045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 74.80 | 100 | 100 | -9  | 3702700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 64.00 | 100 | 100 | -9  | 3702700054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 64.00 | 100 | 100 | -9  | 3702700054 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3702700066 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 3702700066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3702700103 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3702700167 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3702700167 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700007 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700008 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700008 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700017 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700017 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700017 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700017 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700026 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 3702700027 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700041 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 94.00 | 100 | 100 | -9  | 3702700054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 94.00 | 100 | 100 | -9  | 3702700054 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 3702700066 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 3702700066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 3702700103 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 99.88 | 100 | 100 | -9  | 3702700167 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | PM2.5 | -9   | 99.40 | 100 | 100 | -9  | 3702700167 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700007 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700008 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700008 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 002     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700017 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700026 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700027 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700027 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700041 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700041 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700054 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700066 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700066 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700103 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700167 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3702700167 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3703100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3703100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703100005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703100005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3703500011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 78.28 | 100 | 100 | -9  | 3703500018 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 73.30 | 100 | 100 | -9  | 3703500018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 3703500044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3703500044 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3703500102 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3703500106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3703500106 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3703500164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3703500214 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3703500214 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3703500264 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3703500265 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 3703500273 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3703500277 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3703500339 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3703500422 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 78.28 | 100 | 100 | -9  | 3703500018 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 73.30 | 100 | 100 | -9  | 3703500018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500044 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3703500102 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 3703500106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 3703500106 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3703500164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500214 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3703500214 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3703500264 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500265 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 82.00 | 100 | 100 | -9  | 3703500273 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3703500277 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500339 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703500422 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500018 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500018 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500044 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500102 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500214 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500214 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500284 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500285 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500273 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500277 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500339 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703500422 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | PM10  | -9   | 91.60 | 100 | 100 | -9  | 3703700003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3703700091 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703700003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3703700091 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703700003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703700091 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37039  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3703900037 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37039  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3703900037 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3703900037 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 3704100051 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3704100064 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3704100051 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3704100064 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704100051 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704100064 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704700036 | 001     |         |         | NOX SIP Call                           |
| 37047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704700036 | 002     |         |         | NOX SIP Call                           |
| 37047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704700036 | 003     |         |         | NOX SIP Call                           |
| 37047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704700036 | 004     |         |         | NOX SIP Call                           |
| 37047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704700036 | 005     |         |         | NOX SIP Call                           |
| 37047  | -9  | PM10  | -9   | 98.62 | 100 | 100 | -9  | 3704700040 | 008     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37047  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 3704700125 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37047  | -9  | PM2_5 | -9   | 96.45 | 100 | 100 | -9  | 3704700040 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37047  | -9  | PM2_5 | -9   | 96.64 | 100 | 100 | -9  | 3704700125 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704700040 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704700125 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3704900104 | 055     |         |         | NOX SIP Call                           |
| 37049  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3704900008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 3704900019 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 3704900019 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 3704900008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 3704900019 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 3704900019 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704900008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704900019 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3704900019 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3705100106 | 001     |         |         | NOX SIP Call                           |
| 37051  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 3705100016 | 029     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705100140 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 3705100016 | 029     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705100140 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705100016 | 029     |         |         | MACT: Industrial Boiler/Process Heater |
| 37051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705100140 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 001     |         |         | NOX SIP Call                           |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 002     |         |         | NOX SIP Call                           |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 003     |         |         | NOX SIP Call                           |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 004     |         |         | NOX SIP Call                           |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 005     |         |         | NOX SIP Call                           |
| 37057  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3705700300 | 006     |         |         | NOX SIP Call                           |
| 37057  | -9  | PM10  | -9   | 87.52 | 100 | 100 | -9  | 3705700001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 3705700023 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3705700036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700049 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700049 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700050 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700050 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700071 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700076 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700087 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700094 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700128 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700133 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700147 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700147 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700148 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700148 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700149 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700149 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700150 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700150 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3705700164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700179 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700179 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700179 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700179 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 3705700245 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700245 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705700245 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3705700247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3705700251 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3705700269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3705700001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700023 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700049 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700049 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700050 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700050 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700071 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700076 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700087 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700094 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700128 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700133 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700147 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700147 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700148 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700148 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700149 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700149 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700150 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700150 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3705700164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700179 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700179 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700179 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700179 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700245 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700245 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700245 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705700247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3705700251 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3705700269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700021 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700023 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700049 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700049 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700050 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700050 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700055 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700071 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700076 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700087 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700094 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700128 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700133 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 53.85 | 100 | 100 | -9  | 3705700147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700147 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700147 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700148 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700148 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700149 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700149 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700150 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700150 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700179 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700179 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700179 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700179 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700245 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700245 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700245 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700251 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705700269 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705900007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3705900008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705900033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3705900033 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705900007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705900008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705900033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3705900033 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705900007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705900008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705900033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3705900033 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3706100011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3706100011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3706100011 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3706300144 | 001     |         |         | NOX SIP Call                           |
| 37065  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3706500146 | 001     |         |         | NOX SIP Call                           |
| 37065  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 3706500146 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37065  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 3706500146 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37065  | -9  | SO2   | -9   | 95.20 | 100 | 100 | -9  | 3706500146 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00745      | 002     |         |         | NOX SIP Call                           |
| 37067  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00350      | BL1     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00350      | BL2     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00350      | BL3     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM10  | -9   | 99.51 | 100 | 100 | -9  | 00745      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00350      | BL1     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 00350      | BL2     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00350      | BL3     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00745      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00350      | BL1     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00350      | BL2     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00350      | BL3     |         |         | MACT: Industrial Boiler/Process Heater |
| 37067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00745      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37069  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3706900015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37069  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3706900015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3706900015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37071  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 3707100078 | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 37071  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3707100078 | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 37071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3707100078 | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 37073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3707300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3707300014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3707300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3707300014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3707300014 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3707300014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | PM10  | -9   | 84.65 | 100 | 100 | -9  | 3707500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | PM10  | -9   | 84.65 | 100 | 100 | -9  | 3707500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3707500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3707500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3707500005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3707500005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3708100263 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3708100264 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100286 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 89.50 | 100 | 100 | -9  | 3708100309 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3708100320 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100324 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100330 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100518 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100579 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3708100593 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100680 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 3708100755 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100824 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3708100854 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 99.84 | 100 | 100 | -9  | 3708100863 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 99.84 | 100 | 100 | -9  | 3708100863 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3708100910 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3708100910 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708100929 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708100263 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3708100264 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100286 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3708100309 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3708100320 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100324 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100330 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100518 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100579 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3708100593 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100680 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3708100755 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100824 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708100854 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3708100863 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3708100863 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708100910 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708100910 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708100929 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100263 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100264 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100286 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100309 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100320 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100324 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100330 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100518 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100579 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100593 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100680 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100755 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100824 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100854 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100863 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100863 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100910 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100910 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708100929 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3708300007 | 002     |         |         | NOX SIP Call                           |
| 37083  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3708300007 | 013     |         |         | NOX SIP Call                           |
| 37083  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3708300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708300038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3708300121 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3708300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708300038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3708300121 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708300007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708300038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708300121 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37085  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3708500010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37085  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 3708500010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708500010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 3708700159 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | PM10  | -9   | 72.64 | 100 | 100 | -9  | 3708700176 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 3708700159 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708700176 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708700159 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708700176 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37089  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 3708900259 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37089  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3708900259 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3708900259 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37091  | -9  | PM10  | -9   | 93.99 | 100 | 100 | -9  | 3709100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37091  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 3709100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37093  | -9  | PM10  | -9   | 82.38 | 100 | 100 | -9  | 3709300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37093  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3709300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709300001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3709700225 | 001     |         |         | NOX SIP Call                           |
| 37097  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3709700225 | 003     |         |         | NOX SIP Call                           |
| 37097  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3709700225 | 004     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37097  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3709700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM10  | -9   | 92.80 | 100 | 100 | -9  | 3709700014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3709700035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 3709700093 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3709700203 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3709700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3709700014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3709700035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 3709700093 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3709700203 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709700006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709700014 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709700035 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709700093 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709700203 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3709900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3709900033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3709900119 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3709900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3709900033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3709900119 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709900033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3709900119 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3710100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3710100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3710100047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3710100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3710100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3710100047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710100010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710100026 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710100047 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3710700039 | 001     |         |         | NOX SIP Call                           |
| 37107  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 3710700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37107  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3710700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710700039 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3710900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3710900009 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3710900009 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3710900029 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 3710900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3710900009 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3710900009 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3710900029 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710900005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710900009 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710900009 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 37109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3710900029 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3711100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3711100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 86.49 | 100 | 100 | -9  | 3711100031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 71.99 | 100 | 100 | -9  | 3711100031 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 87.10 | 100 | 100 | -9  | 3711100036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 92.32 | 100 | 100 | -9  | 3711100062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 64.90 | 100 | 100 | -9  | 3711100062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 85.60 | 100 | 100 | -9  | 3711100149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3711100162 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 92.63 | 100 | 100 | -9  | 3711100162 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 3711100164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM10  | -9   | 91.22 | 100 | 100 | -9  | 3711100169 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3711100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3711100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100031 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3711100162 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100162 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 3711100164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711100169 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 78.11 | 100 | 100 | -9  | 3711100001 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 78.40 | 100 | 100 | -9  | 3711100001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100031 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100062 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100062 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100149 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100162 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100162 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100164 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711100169 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37113  | -9  | PM10  | -9   | 71.38 | 100 | 100 | -9  | 3711300108 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37113  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3711300108 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3711300108 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3711700069 | 023     |         |         | NOX SIP Call                           |
| 37117  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3711700069 | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3711700069 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3711700069 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 3711700069 | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 3711700069 | 021     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | PM2_5 | -9   | 91.00 | 100 | 100 | -9  | 3711700069 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | SO2   | -9   | 34.72 | 100 | 100 | -9  | 3711700069 | 020     |         |         | MACT: Industrial Boiler/Process Heater |
| 37117  | -9  | SO2   | -9   | 34.72 | 100 | 100 | -9  | 3711700069 | 021     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37117  | -9  | SO2   | -9   | 85.60 | 100 | 100 | -9  | 3711700069 | 023     |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM10  | -9   | 40.50 | 100 | 100 | -9  | 0022       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0058       | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0069       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0022       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0058       | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0069       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0058       | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 37119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0069       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3712100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3712100028 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 86.20 | 100 | 100 | -9  | 3712100028 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 85.72 | 100 | 100 | -9  | 3712100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 82.60 | 100 | 100 | -9  | 3712100092 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 86.18 | 100 | 100 | -9  | 3712100101 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM10  | -9   | 89.13 | 100 | 100 | -9  | 3712100101 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100028 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100028 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100092 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100101 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712100101 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100028 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100028 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100092 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100092 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100101 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712100101 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3712300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3712300029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 3712300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3712300029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712300015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712300029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37127  | -9  | PM10  | -9   | 99.34 | 100 | 100 | -9  | 3712700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37127  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 3712700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3712900036 | 001     |         |         | NOX SIP Call                           |
| 37129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3712900036 | 002     |         |         | NOX SIP Call                           |
| 37129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3712900036 | 004     |         |         | NOX SIP Call                           |
| 37129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3712900036 | 005     |         |         | NOX SIP Call                           |
| 37129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3712900036 | 006     |         |         | NOX SIP Call                           |
| 37129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3712900036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3712900036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3712900036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3712900036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712900036 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3712900036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37131  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3713100041 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37131  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3713100041 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3713100041 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37133  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3713300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37133  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 3713300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37133  | -9  | SO2   | -9   | 95.20 | 100 | 100 | -9  | 3713300011 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3713500043 | 002     |         |         | NOX SIP Call                           |
| 37135  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3713500043 | 003     |         |         | NOX SIP Call                           |
| 37135  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3713500009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | PM10  | -9   | 99.82 | 100 | 100 | -9  | 3713500043 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | PM10  | -9   | 99.82 | 100 | 100 | -9  | 3713500043 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 3713500009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3713500043 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3713500043 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3713500009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 3713500043 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37135  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 3713500043 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3713900030 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3713900030 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3713900030 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3713900030 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3713900030 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3713900030 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3714500056 | 001     |         |         | NOX SIP Call                           |
| 37145  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3714500052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3714500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 3714500056 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3714500052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3714500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3714500056 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714500052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714500054 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37145  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714500056 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM10  | -9   | 87.76 | 100 | 100 | -9  | 3714700252 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM10  | -9   | 87.76 | 100 | 100 | -9  | 3714700252 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM10  | -9   | 87.75 | 100 | 100 | -9  | 3714700252 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3714700252 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3714700252 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3714700252 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714700252 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714700252 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3714700252 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100049 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3715100057 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100084 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100085 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100109 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100114 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3715100124 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100126 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100159 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3715100233 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 86.20 | 100 | 100 | -9  | 3715100236 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715100290 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100049 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3715100057 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100084 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100085 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100109 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100114 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3715100124 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100126 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100159 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3715100233 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3715100236 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715100290 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100049 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100057 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100084 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100085 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100109 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100114 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100124 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100126 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100159 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100233 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100236 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100247 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715100290 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715300044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37153  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715300044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715300044 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3715500147 | 001     |         |         | NOX SIP Call                           |
| 37155  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715500147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | PM10  | -9   | 99.64 | 100 | 100 | -9  | 3715500166 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715500147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3715500166 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715500147 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715500166 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3715700090 | 001     |         |         | NOX SIP Call                           |
| 37157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3715700090 | 002     |         |         | NOX SIP Call                           |
| 37157  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3715700131 | 011     |         |         | NOX SIP Call                           |
| 37157  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3715700131 | 012     |         |         | NOX SIP Call                           |
| 37157  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3715700131 | 014     |         |         | NOX SIP Call                           |
| 37157  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 3715700131 | 015     |         |         | NOX SIP Call                           |
| 37157  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3715700083 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 3715700090 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 3715700090 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM10  | -9   | 77.20 | 100 | 100 | -9  | 3715700139 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3715700083 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 3715700090 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 3715700090 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 3715700139 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715700083 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715700090 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715700090 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715700139 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715700157 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3715900034 | 003     |         |         | NOX SIP Call                           |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 98.69 | 100 | 100 | -9  | 3715900144 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 98.69 | 100 | 100 | -9  | 3715900144 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM10  | -9   | 98.69 | 100 | 100 | -9  | 3715900144 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3715900003 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3715900144 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3715900144 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3715900144 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900003 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900144 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900144 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3715900144 | 003     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37161  | -9  | PM10  | -9   | 82.84 | 100 | 100 | -9  | 3716100009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 71.38 | 100 | 100 | -9  | 3716100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716100078 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 80.47 | 100 | 100 | -9  | 3716100107 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 84.16 | 100 | 100 | -9  | 3716100107 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 3716100177 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716100187 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3716100009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3716100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716100078 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3716100107 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3716100107 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 3716100177 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716100187 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100078 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100107 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100107 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100177 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716100187 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716300024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3716300052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716300024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3716300052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716300024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716300052 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716500038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716500048 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3716500038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716500048 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716500038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716500048 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 3716700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 3716700013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM10  | -9   | 99.97 | 100 | 100 | -9  | 3716700013 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM10  | -9   | 99.28 | 100 | 100 | -9  | 3716700016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM10  | -9   | 99.28 | 100 | 100 | -9  | 3716700016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 3716700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 3716700013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 3716700013 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 3716700016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | PM2_5 | -9   | 99.28 | 100 | 100 | -9  | 3716700016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716700013 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 3716700013 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | SO2   | -9   | 61.60 | 100 | 100 | -9  | 3716700013 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716700016 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716700016 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716900034 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3716900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716900034 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3716900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716900034 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3716900035 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 99.22 | 100 | 100 | -9  | 3717100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3717100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3717100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3717100009 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3717100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3717100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3717100077 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3717100099 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 3717100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 3717100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3717100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3717100009 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3717100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3717100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3717100077 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3717100099 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100006 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100006 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100009 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100009 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100024 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100028 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100077 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717100099 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3717500056 | 003     |         |         | NOX SIP Call                           |
| 37175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3717500056 | 004     |         |         | NOX SIP Call                           |
| 37175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3717500056 | 005     |         |         | NOX SIP Call                           |
| 37175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3717500056 | 006     |         |         | NOX SIP Call                           |
| 37175  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3717500056 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3717500056 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3717500056 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3717500056 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 3717500056 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3717500056 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3717500056 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3717500056 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3717500056 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | PM2_5 | -9   | 99.76 | 100 | 100 | -9  | 3717500056 | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717500056 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717500056 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717500056 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717500056 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 37175  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717500056 | 006     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 37179  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3717900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37179  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3717900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3717900020 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | PM10  | -9   | 61.17 | 100 | 100 | -9  | 3718300001 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718300255 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3718300001 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718300255 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718300001 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 37183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718300255 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718500031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718500031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718500002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37185  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718500031 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718900081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718900101 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3718900106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718900081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718900101 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3718900106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718900081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718900101 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37189  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3718900106 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3719100058 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 3719100058 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 3719100058 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | PM2_5 | -9   | 99.06 | 100 | 100 | -9  | 3719100058 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719100009 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719100058 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 37191  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719100058 | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 91.60 | 100 | 100 | -9  | 3719300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 3719300001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3719300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3719300004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 3719300005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3719300026 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 3719300045 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 3719300133 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 73.35 | 100 | 100 | -9  | 3719300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 73.35 | 100 | 100 | -9  | 3719300001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3719300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3719300004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3719300005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3719300026 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 3719300045 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 3719300133 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 13.60 | 100 | 100 | -9  | 3719300001 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 93.57 | 100 | 100 | -9  | 3719300001 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300004 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300026 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300045 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 37193  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719300133 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37195  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 3719500043 | 012     |         |         | NOX SIP Call                           |
| 37195  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 3719500040 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37195  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 3719500040 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 37195  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 3719500040 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | PM10  | -9   | 93.85 | 100 | 100 | -9  | 0005       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | PM10  | -9   | 93.85 | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 38017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM10  | -9   | 99.95 | 100 | 100 | -9  | 0003       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM10  | -9   | 99.95 | 100 | 100 | -9  | 0003       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM10  | -9   | 99.95 | 100 | 100 | -9  | 0003       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 0003       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 0003       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 0003       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 38057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 38057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 38067  | -9  | PM10  | -9   | 97.29 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38067  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0026       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0026       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0026       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 38093  | -9  | PM10  | -9   | 81.55 | 100 | 100 | -9  | 0005       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38093  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0005       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38097  | -9  | PM10  | -9   | 98.65 | 100 | 100 | -9  | 0019       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38097  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0019       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 38097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0019       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 39001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0701000060 | B004    |         |         | NOX SIP Call                           |
| 39003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0302020015 | P075    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 0302020027 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 0302020027 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0302020015 | P075    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | PM2_5 | -9   | 99.60 | 100 | 100 | -9  | 0302020027 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | PM2_5 | -9   | 99.42 | 100 | 100 | -9  | 0302020027 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0302020015 | P075    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 39003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0302020027 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0302020027 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0302020027 | B006    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | F002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0204010193 | F003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0204010200 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0204010193 | F002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0204010193 | F003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0204010200 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0204010193 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0204010193 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0204010193 | F002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0204010193 | F003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0204010200 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0605010016 | B041    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0605010016 | B043    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0605010016 | B041    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0605010016 | B043    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0605010016 | B041    |         |         | MACT: Industrial Boiler/Process Heater |
| 39009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0605010016 | B043    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0306010010 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0306010010 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0306010010 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0306010010 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0306010010 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0306010010 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409000003 | B001    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010006 | B918    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010006 | P925    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010043 | B004    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010078 | B001    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010078 | B004    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409010078 | B005    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409040212 | B010    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409040243 | B002    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409040243 | B004    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409040243 | B008    |         |         | NOX SIP Call                           |
| 39017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1409040243 | B009    |         |         | NOX SIP Call                           |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409000353 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409000353 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409040212 | B010    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409040212 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409040243 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1409040243 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 1409090081 | B011    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 1409090081 | B012    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409000353 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409000353 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409010043 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409040212 | B010    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409040212 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409040243 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1409040243 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1409090081 | B011    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1409090081 | B012    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409000353 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409000353 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409010043 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409010043 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409010043 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409010043 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409040212 | B010    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409040212 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409040243 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409040243 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409090081 | B011    |         |         | MACT: Industrial Boiler/Process Heater |
| 39017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1409090081 | B012    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | PM10  | -9   | 82.17 | 100 | 100 | -9  | 1413000187 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | PM10  | -9   | 82.17 | 100 | 100 | -9  | 1413000187 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | PM2_5 | -9   | 91.65 | 100 | 100 | -9  | 1413000187 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | PM2_5 | -9   | 91.65 | 100 | 100 | -9  | 1413000187 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1413000187 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1413000187 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0616010001 | B006    |         |         | MACT: Industrial Boiler/Process Heater |
| 39031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0616010001 | B006    |         |         | MACT: Industrial Boiler/Process Heater |
| 39031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0616010001 | B006    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B001    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B002    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B003    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B004    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B005    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B006    |         |         | NOX SIP Call                           |
| 39035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1318001613 | B007    |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 39035  | -9  | PM10  | -9   | 93.70 | 100 | 100 | -9  | 1318000246 | B101    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 93.70 | 100 | 100 | -9  | 1318000246 | B102    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 93.70 | 100 | 100 | -9  | 1318000246 | B104    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 78.74 | 100 | 100 | -9  | 1318000246 | F103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1318003059 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1318003059 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B023    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1318000246 | B101    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1318000246 | B102    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1318000246 | B104    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 64.54 | 100 | 100 | -9  | 1318000246 | F103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1318003059 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1318003059 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 1318120180 | B023    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318000246 | B101    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318000246 | B102    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318000246 | B104    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318000246 | F103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318003059 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318003059 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318120180 | B020    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318120180 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318120180 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1318120180 | B023    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0322010062 |         |         |         | MACT: Lime Manufacturing               |
| 39043  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0322020005 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM10  | -9   | 98.65 | 100 | 100 | -9  | 0322020045 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM10  | -9   | 98.50 | 100 | 100 | -9  | 0322020045 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0322020045 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0322010062 |         |         |         | MACT: Lime Manufacturing               |
| 39043  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0322020005 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0322020045 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0322020045 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0322020045 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0322010062 |         |         |         | MACT: Lime Manufacturing               |
| 39043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0322020005 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0322020045 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0322020045 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0322020045 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39045  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0123010150 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39045  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0123010150 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0123010150 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0125042608 | B132    |         |         | NOX SIP Call                           |
| 39049  | -9  | PM10  | -9   | 94.15 | 100 | 100 | -9  | 0125040021 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 94.15 | 100 | 100 | -9  | 0125040021 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 94.15 | 100 | 100 | -9  | 0125040021 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125040031 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125040219 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0125042608 | B131    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0125040021 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0125040021 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0125040021 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125040031 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125040057 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125040219 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0125042608 | B131    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040021 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040021 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040021 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040031 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040057 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040057 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040057 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125040219 | X001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0125042608 | B131    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | PM10  | -9   | 99.10 | 100 | 100 | -9  | 0326000079 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | PM10  | -9   | 99.10 | 100 | 100 | -9  | 0326000079 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0326000079 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0326000079 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0326000079 | B008    |         |         | MACT: Industrial Boiler/Process Heater |
| 39051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0326000079 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0627000003 | B001    |         |         | NOX SIP Call                           |
| 39053  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0627000003 | B002    |         |         | NOX SIP Call                           |
| 39053  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0627000003 | B003    |         |         | NOX SIP Call                           |
| 39053  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0627000003 | B004    |         |         | NOX SIP Call                           |
| 39053  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0627000003 | B005    |         |         | NOX SIP Call                           |
| 39053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0627000003 | B005    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 39053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0627000003 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0627000003 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0627000003 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0627000003 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0627000003 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0829700165 | P003    |         |         | NOX SIP Call                           |
| 39057  | -9  | PM10  | -9   | 98.62 | 100 | 100 | -9  | 0829700441 | B309    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM10  | -9   | 98.62 | 100 | 100 | -9  | 0829700441 | B310    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM10  | -9   | 98.62 | 100 | 100 | -9  | 0829700441 | B311    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM10  | -9   | 95.51 | 100 | 100 | -9  | 0829700441 | B606    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM10  | -9   | 95.51 | 100 | 100 | -9  | 0829700441 | B607    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM10  | -9   | 95.51 | 100 | 100 | -9  | 0829700441 | B608    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 96.48 | 100 | 100 | -9  | 0829700441 | B309    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 96.48 | 100 | 100 | -9  | 0829700441 | B310    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 96.48 | 100 | 100 | -9  | 0829700441 | B311    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 91.65 | 100 | 100 | -9  | 0829700441 | B606    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 91.66 | 100 | 100 | -9  | 0829700441 | B607    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | PM2_5 | -9   | 91.66 | 100 | 100 | -9  | 0829700441 | B608    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B309    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B310    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B311    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B606    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B607    |         |         | MACT: Industrial Boiler/Process Heater |
| 39057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0829700441 | B608    |         |         | MACT: Industrial Boiler/Process Heater |
| 39059  | -9  | PM10  | -9   | 46.00 | 100 | 100 | -9  | 0630010108 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39059  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0630010108 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0630010108 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1431070035 | B027    |         |         | NOX SIP Call                           |
| 39061  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1431390903 | B022    |         |         | NOX SIP Call                           |
| 39061  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1431010054 | B007    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1431010054 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1431070035 | B027    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1431070035 | B028    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431070039 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 1431070076 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 1431070076 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 1431070076 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 1431070076 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1431070624 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431070849 | B103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 98.74 | 100 | 100 | -9  | 1431070849 | B108    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431070952 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.50 | 100 | 100 | -9  | 1431150801 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 1431150801 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 1431150801 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 1431390137 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 1431390137 | Z001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 1431390903 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 1431390903 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 1431010054 | B007    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431010054 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1431070035 | B027    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 1431070035 | B028    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431070039 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 1431070076 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 1431070076 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 1431070076 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 1431070076 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 1431070624 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431070849 | B103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 1431070849 | B108    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431070952 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 1431150801 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 1431150801 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 1431150801 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 1431390137 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 1431390137 | Z001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1431390903 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1431390903 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1431490901 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431010054 | B007    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431010054 | F001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070035 | B027    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070035 | B028    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070039 | B009    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070076 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070076 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070076 | B004    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070076 | B005    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070624 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070849 | B103    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070849 | B108    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431070952 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431150801 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431150801 | B002    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431150801 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431390137 | B003    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431390137 | Z001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431390903 | B021    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431390903 | B022    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431490901 | B001    |         |         | MACT: Industrial Boiler/Process Heater |
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431490901 | B002    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 39061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1431490901 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | PM10  | -9   | 99.11 | 100 | 100 | -9  | 0335010105 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | PM10  | -9   | 99.11 | 100 | 100 | -9  | 0335010105 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0335010105 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0335010105 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0335010105 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0335010105 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39081  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0641090010 | P006    |         |         | NOX SIP Call                                |
| 39081  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0641090010 | P007    |         |         | NOX SIP Call                                |
| 39081  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0641090010 | P008    |         |         | NOX SIP Call                                |
| 39081  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0641090010 | P903    |         |         | NOX SIP Call                                |
| 39085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0243110008 | B001    |         |         | NOX SIP Call                                |
| 39085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0243110008 | B004    |         |         | NOX SIP Call                                |
| 39085  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0243030257 |         |         |         | MACT: Lime Manufacturing                    |
| 39085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0243030257 |         |         |         | MACT: Lime Manufacturing                    |
| 39085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0243110008 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0243000024 | P029    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0243030257 |         |         |         | MACT: Lime Manufacturing                    |
| 39085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0243110008 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0243110008 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0243110008 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0145000018 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0145000018 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0145000018 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0247030471 | X002    |         |         | NOX SIP Call                                |
| 39093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0247080229 | B013    |         |         | NOX SIP Call                                |
| 39093  | -9  | PM10  | -9   | 95.30 | 100 | 100 | -9  | 0247100408 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | PM10  | -9   | 95.30 | 100 | 100 | -9  | 0247100408 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | PM2_5 | -9   | 88.18 | 100 | 100 | -9  | 0247100408 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | PM2_5 | -9   | 88.18 | 100 | 100 | -9  | 0247100408 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0247100408 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0247100408 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39093  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0247030471 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39093  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0247080234 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448010246 | B044    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448010246 | B046    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448010246 | B047    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0448010246 | Z008    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448020007 | B004    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448020007 | B009    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448020007 | B010    |         |         | NOX SIP Call                                |
| 39095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0448020007 | B020    |         |         | NOX SIP Call                                |
| 39095  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0448010247 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0448010247 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0448010247 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0448010413 | B014    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0448010247 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0448010247 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0448010247 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0448010413 | B014    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0448010247 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0448010247 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0448010247 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0448010413 | B014    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39095  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0448010413 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39095  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0448010414 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39099  | -9  | PM10  | -9   | 59.20 | 100 | 100 | -9  | 0250110024 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | PM10  | -9   | 59.20 | 100 | 100 | -9  | 0250110024 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | PM10  | -9   | 59.20 | 100 | 100 | -9  | 0250110024 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0250110024 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0250110024 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0250110024 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0250110024 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0250110024 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0250110024 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0857041124 | B004    |         |         | NOX SIP Call                                |
| 39113  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0857190001 | B003    |         |         | NOX SIP Call                                |
| 39113  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0857190134 | B001    |         |         | NOX SIP Call                                |
| 39113  | -9  | PM10  | -9   | 80.82 | 100 | 100 | -9  | 0857040017 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 80.82 | 100 | 100 | -9  | 0857040017 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.05 | 100 | 100 | -9  | 0857040931 | B502    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.05 | 100 | 100 | -9  | 0857040931 | B503    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 0857041124 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0857080148 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0857080148 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 90.32 | 100 | 100 | -9  | 0857190001 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 99.32 | 100 | 100 | -9  | 0857190001 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 92.59 | 100 | 100 | -9  | 0857190134 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0857190134 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 56.30 | 100 | 100 | -9  | 0857040017 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 56.31 | 100 | 100 | -9  | 0857040017 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 97.84 | 100 | 100 | -9  | 0857040931 | B502    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 97.84 | 100 | 100 | -9  | 0857040931 | B503    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0857041124 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 76.00 | 100 | 100 | -9  | 0857190001 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 98.04 | 100 | 100 | -9  | 0857190001 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 73.00 | 100 | 100 | -9  | 0857190134 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0857190134 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857040017 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857040017 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857040931 | B502    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857040931 | B503    |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857041124 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857080148 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857080148 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857190001 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857190001 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857190134 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0857190134 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39113  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0857101349 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0660010006 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0660010006 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0660010006 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0660010006 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0660010006 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0660010006 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39123  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0362000079 |         |         |         | MACT: Lime Manufacturing                    |
| 39123  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0362000079 |         |         |         | MACT: Lime Manufacturing                    |
| 39123  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0362000079 |         |         |         | MACT: Lime Manufacturing                    |
| 39131  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0666000000 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0666000000 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0666000000 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0666010033 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 0666010033 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM2_5 | -9   | 97.28 | 100 | 100 | -9  | 0666000000 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM2_5 | -9   | 97.28 | 100 | 100 | -9  | 0666000000 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM2_5 | -9   | 97.28 | 100 | 100 | -9  | 0666000000 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 0666010033 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 0666010033 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0666000000 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0666000000 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0666000000 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0666010033 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0666010033 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1667040085 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1667040085 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1667040085 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1667040085 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1667040085 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1667040085 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0370020002 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0370020002 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0370000140 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0370020002 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0370020002 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0370000140 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0370000140 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0370000140 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0370020002 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0370020002 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 0671010028 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0671010028 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0671010028 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0671010028 | B013    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 0671010104 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 0671010104 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 0671010104 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 0671010104 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.82 | 100 | 100 | -9  | 0671010028 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.82 | 100 | 100 | -9  | 0671010028 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.82 | 100 | 100 | -9  | 0671010028 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 0671010028 | B013    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 0671010104 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 0671010104 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 0671010104 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | PM2_5 | -9   | 99.85 | 100 | 100 | -9  | 0671010104 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010028 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010028 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010028 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010104 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010104 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010104 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0671010104 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0372030005 | Z001    |         |         | NOX SIP Call                                |
| 39143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0372030005 | Z002    |         |         | NOX SIP Call                                |
| 39143  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0372000081 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0372000104 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0372000127 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0372000081 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0372000104 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0372000127 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0372000081 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0372000104 |         |         |         | MACT: Lime Manufacturing                    |
| 39143  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0372000127 |         |         |         | MACT: Lime Manufacturing                    |
| 39145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0773000080 | B014    |         |         | NOX SIP Call                                |
| 39145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0773010004 | B008    |         |         | NOX SIP Call                                |
| 39145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0773010004 | B009    |         |         | NOX SIP Call                                |
| 39149  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 0575010160 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39149  | -9  | PM10  | -9   | 99.85 | 100 | 100 | -9  | 0575010160 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39149  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0575010160 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39149  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0575010160 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39149  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0575010160 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39149  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0575010160 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 39151  | -9  | PM10  | -9   | 63.10 | 100 | 100 | -9  | 1576000073 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1576050614 | B304    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1576080056 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 1576170258 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | 1576000073 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 1576050614 | B304    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1576080056 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1576170258 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1576000073 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1576050614 | B304    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1576080056 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1576170258 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1677010193 | B101    |         |         | NOX SIP Call                                |
| 39153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1677010193 | B102    |         |         | NOX SIP Call                                |
| 39153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1677010757 | B002    |         |         | NOX SIP Call                                |
| 39153  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1677010027 | X001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1677010029 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1677010193 | B101    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1677010193 | B102    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1677010193 | B103    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 1677010193 | F104    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 1677010757 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1677010757 | N001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 1677010027 | X001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1677010029 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1677010193 | B101    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1677010193 | B102    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1677010193 | B103    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 99.99 | 100 | 100 | -9  | 1677010193 | F104    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 1677010757 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 1677010757 | N001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010027 | X001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010029 | B008    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010193 | B101    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010193 | B102    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010193 | B103    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010193 | F104    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010757 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1677010757 | N001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000199 | X000    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | B001    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | B002    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | B004    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | P001    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | P011    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | P016    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | P017    |         |         | NOX SIP Call                                |
| 39155  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0278000463 | P901    |         |         | NOX SIP Call                                |
| 39155  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 0278000013 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0278000463 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0278080015 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 0278080015 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0278000013 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0278000463 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0278080015 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0278080015 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0278000013 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0278000463 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0278080015 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0278080015 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39155  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0278000199 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 39157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0679010146 | B005    |         |         | NOX SIP Call                                |
| 39157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0679010146 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0679010146 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0679010146 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39161  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 0381000011 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39161  | -9  | PM2_5 | -9   | 99.71 | 100 | 100 | -9  | 0381000011 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0381000011 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0684010011 | B007    |         |         | NOX SIP Call                                |
| 39167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0684020037 | B001    |         |         | NOX SIP Call                                |
| 39167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0684020037 | B002    |         |         | NOX SIP Call                                |
| 39167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0684020037 | B003    |         |         | NOX SIP Call                                |
| 39167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0684020037 | B004    |         |         | NOX SIP Call                                |
| 39167  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 0684010011 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 0684010011 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0684010011 | F002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 99.82 | 100 | 100 | -9  | 0684010011 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 99.82 | 100 | 100 | -9  | 0684010011 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0684010011 | F002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0684020037 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684010011 | B005    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684010011 | B007    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684010011 | F002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684020037 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684020037 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684020037 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0684020037 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0285010188 | B001    |         |         | NOX SIP Call                                |
| 39169  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0285010188 | B004    |         |         | NOX SIP Call                                |
| 39169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 39169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM10  | -9   | 83.20 | 100 | 100 | -9  | 0285020059 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0285020059 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 0285030180 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0285010188 | B006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0285020059 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0285020059 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 0285030180 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285010188 | B001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285010188 | B004    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285010188 | B006    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285020059 | B002    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285020059 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39169  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0285030180 | B003    |         |         | MACT: Industrial Boiler/Process Heater      |
| 39175  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0388000043 |         |         |         | MACT: Lime Manufacturing                    |
| 39175  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0388000043 |         |         |         | MACT: Lime Manufacturing                    |
| 39175  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0388000043 |         |         |         | MACT: Lime Manufacturing                    |
| 40031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1662       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1662       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1662       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1662       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1662       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1662       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | PM10  | -9   | 85.60 | 100 | 100 | -9  | 2734       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | PM10  | -9   | 74.08 | 100 | 100 | -9  | 2878       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | PM2_5 | -9   | 78.40 | 100 | 100 | -9  | 2734       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | PM2_5 | -9   | 78.40 | 100 | 100 | -9  | 2878       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2734       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2878       | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1643       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1643       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1643       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1643       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1643       | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1643       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1650       | 15      |         |         | MACT: Industrial Boiler/Process Heater      |
| 40109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1650       | 15      |         |         | MACT: Industrial Boiler/Process Heater      |
| 40109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1650       | 15      |         |         | MACT: Industrial Boiler/Process Heater      |
| 40109  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 1650       |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 40123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2491       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40123  | -9  | PM10  | -9   | 87.53 | 100 | 100 | -9  | 2491       | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2491       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40123  | -9  | PM2_5 | -9   | 78.42 | 100 | 100 | -9  | 2491       | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40123  | -9  | SO2   | -9   | 78.50 | 100 | 100 | -9  | 2491       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2491       | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1212       | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1212       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1212       | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1212       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1212       | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40131  | -9  | SO2   | -9   | 80.80 | 100 | 100 | -9  | 1212       | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 40135  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 1655       |         |         |         | MACT: Lime Manufacturing                    |
| 40135  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 1655       |         |         |         | MACT: Lime Manufacturing                    |
| 40135  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 1655       |         |         |         | MACT: Lime Manufacturing                    |
| 40143  | -9  | SO2   | -9   | 79.27 | 100 | 100 | -9  | 1137       | 65      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 22159      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 22159      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 22159      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31850      | 26      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31850      | 26      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31850      | 26      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 40041      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 40041      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 40041      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 60010      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 60015      | 22      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 60015      | 23      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 60010      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 60015      | 22      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 60015      | 23      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 60010      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 60015      | 22      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 60015      | 23      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 70005      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 70005      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 70008      | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 70005      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 70005      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 70008      | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 70005      | 11      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 70005      | 12      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 70008      | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 80003      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 80003      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 80003      | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 90002      | 41      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 90002      | 41      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 90002      | 41      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100002     | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100022     | 16      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100025     | 29      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100025     | 30      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100025     | 31      |         |         | MACT: Industrial Boiler/Process Heater      |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100030     | 9       |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100045  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100054  | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100078  | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100078  | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100083  | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 100083  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100002  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100022  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100025  | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100025  | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100025  | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100030  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100045  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100054  | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100078  | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100078  | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100083  | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 100083  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100002  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100022  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100025  | 29      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100025  | 30      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100025  | 31      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100030  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100045  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100054  | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100078  | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100078  | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100083  | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100083  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 100083  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 120001  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 120032  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 120032  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 120001  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 120032  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 120032  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 120001  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 120032  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 120032  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 140009  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 140009  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 140009  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150004  | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150020  | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150073  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150159  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 150159  | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150004  | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150020  | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150073  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150159  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 150159  | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150004  | 33      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150020  | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150073  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150159  | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 150159  | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 180005  | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 180006  | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 180014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 180014  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 180005  | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 180006  | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 180014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 180014  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 180005  | 19      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 180006  | 51      |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 180014  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 180014  | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 221037  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 222525  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 223010  | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 225195  | 57      |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 221037  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 222525  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 223010  | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 225195  | 57      |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 221037  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 222522  | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 222525  | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 223010  | 11      |         |         | MACT: Industrial Boiler/Process Heater |
| 41043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 225195  | 57      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230002  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230002  | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 230002  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230002  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230002  | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230002  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 16      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 41045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 230002  | 26      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 41049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2500020       | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 41049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2500020       | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 41049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2500020       | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 41053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 270177        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 270177        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 270177        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 290007        | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 290007        | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 290007        | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 41059  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 300009        | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 41059  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 300009        | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 41059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 300009        | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 310002        | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 310002        | 35      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 310006        | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 310006        | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 310002        | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 310002        | 35      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 310006        | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 310006        | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 310002        | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 310002        | 35      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 310006        | 14      |         |         | MACT: Industrial Boiler/Process Heater |
| 41061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 310006        | 15      |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 342066        | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 342066        | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 342066        | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 342066        | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 342066        | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 342066        | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 342066        | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 342066        | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 41067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 342066        | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 366142        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 366142        | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 366142        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 366142        | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 366142        | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 41071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 366142        | 9       |         |         | MACT: Industrial Boiler/Process Heater |
| 42001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-11 | 101     |         |         | NOX SIP Call                           |
| 42001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-12 | 101     |         |         | NOX SIP Call                           |
| 42001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-8  | 031     |         |         | NOX SIP Call                           |
| 42001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-8  | 032     |         |         | NOX SIP Call                           |
| 42001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-8  | 033     |         |         | NOX SIP Call                           |
| 42001  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 36-4119340-3  |         |         |         | MACT: Lime Manufacturing               |
| 42001  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 36-4119340-3  |         |         |         | MACT: Lime Manufacturing               |
| 42001  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 36-4119340-3  |         |         |         | MACT: Lime Manufacturing               |
| 42003  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 4200300020    | 004     |         |         | NOX SIP Call                           |
| 42003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4200300022    | 006     |         |         | NOX SIP Call                           |
| 42003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4200300032    | 035     |         |         | NOX SIP Call                           |
| 42003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4200300032    | 036     |         |         | NOX SIP Call                           |
| 42003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4200300032    | 038     |         |         | NOX SIP Call                           |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 4200300024    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 4200300024    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 4200300024    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 4200300024    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 4200300183    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM10  | -9   | 99.59 | 100 | 100 | -9  | 4200300311    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300024    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300024    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300024    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300024    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300144    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4200300183    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 4200300311    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300009    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300024    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300024    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300024    | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300024    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300144    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300144    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300144    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300144    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300144    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300183    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 42003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4200300311    | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-3  | 031     |         |         | NOX SIP Call                           |
| 42005  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-3  | 032     |         |         | NOX SIP Call                           |
| 42005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-3020481-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-3020481-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 22-2370906-2  | 034     |         |         | NOX SIP Call                           |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 22-2370906-2  | 035     |         |         | NOX SIP Call                           |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 54-1163725-1  | 032     |         |         | NOX SIP Call                           |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 54-1163725-1  | 033     |         |         | NOX SIP Call                           |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 54-1163725-1  | 034     |         |         | NOX SIP Call                           |
| 42007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 54-1163725-1  | 035     |         |         | NOX SIP Call                           |
| 42007  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 22-2370906-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 22-2370906-2  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 22-2370906-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 22-2370906-2  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 54-1163725-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 22-2370906-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 22-2370906-2  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 54-1163725-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 54-1163725-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 54-1163725-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42007  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 54-1163725-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 52-1555005-1  | 121     |         |         | NOX SIP Call                           |
| 42011  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 52-1555005-1  | 122     |         |         | NOX SIP Call                           |
| 42011  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-4  | 031     |         |         | NOX SIP Call                           |
| 42011  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-4  | 032     |         |         | NOX SIP Call                           |
| 42011  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-4  | 033     |         |         | NOX SIP Call                           |
| 42011  | -9  | PM10  | -9   | 83.64 | 100 | 100 | -9  | 23-2250505-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 72.00 | 100 | 100 | -9  | 23-2250505-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 71.72 | 100 | 100 | -9  | 23-2250505-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 23-6003113-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 23-6003113-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 23-6003113-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 95.80 | 100 | 100 | -9  | 23-6003113-20 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 23-6003113-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 23-6003113-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 23-6003113-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-20 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-4  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-20 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-4  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-4  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM10  | -9   | 98.79 | 100 | 100 | -9  | 13-1466285-3  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 23-0385230-1  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 23-1989084-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 23-1989084-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 23-1989084-3  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 13-1466285-3  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 23-0385230-1  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-1989084-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-1989084-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-1989084-3  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-1466285-3  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0385230-1  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1989084-3  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1989084-3  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42013  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1989084-3  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 31-1389766-1  | CU1&2   |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 64-0198020-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 64-0198020-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 31-1389766-1  | CU1&2   |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 64-0198020-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 64-0198020-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31-1389766-1  | CU1&2   |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 64-0198020-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 64-0198020-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3064219-26 | 043     |         |         | NOX SIP Call                           |
| 42017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3064219-26 | 044     |         |         | NOX SIP Call                           |
| 42017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3064219-26 | 045     |         |         | NOX SIP Call                           |
| 42017  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 43-0368310-1  | 445     |         |         | NOX SIP Call                           |
| 42019  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 25-1426093-1  | 101     |         |         | NOX SIP Call                           |
| 42019  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 25-1426093-1  | 121     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 25-0922711-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 25-1004140-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 76-0547126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM10  | -9   | 87.40 | 100 | 100 | -9  | 76-0547126-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 25-0922711-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 25-1004140-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 76-0547126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 76-0547126-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-10 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 25-0922711-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 25-1004140-1  |         |         |         | MACT: Lime Manufacturing               |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 76-0547126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 76-0547126-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 25-1692995-1  | 031     |         |         | NOX SIP Call                           |
| 42021  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 72-1085863-1  | 031     |         |         | NOX SIP Call                           |
| 42021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003107-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003107-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM10  | -9   | 65.20 | 100 | 100 | -9  | 25-0965307-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 25-0965307-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 25-1692995-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 72-1085863-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003107-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003107-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 25-0965307-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 25-0965307-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 25-1692995-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 72-1085863-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003107-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003107-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0965307-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0965307-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1692995-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 72-1085863-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 24-6000376-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 24-6000376-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 24-6000376-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 24-6000376-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 24-6000376-1  | FE001   |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 25-1429432-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 25-1527520-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 25-1527520-3  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 24-6000376-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 24-6000376-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 24-6000376-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 24-6000376-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 24-6000376-1  | FE001   |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 25-1429432-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 25-1527520-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 25-1527520-3  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24-6000376-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24-6000376-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24-6000376-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24-6000376-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24-6000376-1  | FE001   |         |         | MACT: Industrial Boiler/Process Heater |
| 42027  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 25-1429432-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 25-1527520-1  |         |         |         | MACT: Lime Manufacturing               |
| 42027  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 25-1527520-3  |         |         |         | MACT: Lime Manufacturing               |
| 42029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3064219-4  | 031     |         |         | NOX SIP Call                           |
| 42029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3064219-4  | 032     |         |         | NOX SIP Call                           |
| 42029  | -9  | PM10  | -9   | 99.82 | 100 | 100 | -9  | 23-0534560-2  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3064219-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-0534560-2  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2250505-26 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3064219-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0534560-2  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-26 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-26 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-26 | 034     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42029  | -9  | SO2   | -9   | 96.16 | 100 | 100 | -9  | 23-3064219-4  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 25-1691604-1  | 031     |         |         | NOX SIP Call                           |
| 42031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 25-1691604-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75-1903917-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | PM10  | -9   | 83.35 | 100 | 100 | -9  | 93-0432081-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 25-1691604-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75-1903917-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 93-0432081-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1691604-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75-1903917-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 93-0432081-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2053400-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42033  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2053400-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2053400-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 13-0872805-5  | 033     |         |         | NOX SIP Call                           |
| 42035  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 13-0872805-5  | 034     |         |         | NOX SIP Call                           |
| 42035  | -9  | PM10  | -9   | 97.12 | 100 | 100 | -9  | 13-0872805-5  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | PM10  | -9   | 97.12 | 100 | 100 | -9  | 13-0872805-5  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 13-0872805-5  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 13-0872805-5  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0872805-5  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0872805-5  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 23-1688517-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 23-1688517-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 80.32 | 100 | 100 | -9  | 23-2250505-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 80.32 | 100 | 100 | -9  | 23-2250505-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 80.32 | 100 | 100 | -9  | 23-2250505-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 80.32 | 100 | 100 | -9  | 23-2250505-7  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM10  | -9   | 80.32 | 100 | 100 | -9  | 23-2250505-7  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-1688517-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-1688517-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-7  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-7  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1688517-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1688517-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-7  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-7  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-7  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-17 | 036     |         |         | NOX SIP Call                           |
| 42041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-9  | 031     |         |         | NOX SIP Call                           |
| 42041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-9  | 032     |         |         | NOX SIP Call                           |
| 42041  | -9  | PM10  | -9   | 96.09 | 100 | 100 | -9  | 23-2250505-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM10  | -9   | 96.34 | 100 | 100 | -9  | 23-2250505-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM10  | -9   | 97.27 | 100 | 100 | -9  | 23-2250505-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM10  | -9   | 83.64 | 100 | 100 | -9  | 23-2250505-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM10  | -9   | 95.97 | 100 | 100 | -9  | 23-6002831-18 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2250505-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-18 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2250505-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-18 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-18 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-18 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42043  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 24-0526133-4  | 301     |         |         | NOX SIP Call                           |
| 42045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 06-1331906-1  | 032     |         |         | NOX SIP Call                           |
| 42045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-1743283-12 | 089     |         |         | NOX SIP Call                           |
| 42045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-1743283-12 | 090     |         |         | NOX SIP Call                           |
| 42045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-1743283-12 | 101     |         |         | NOX SIP Call                           |
| 42045  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 65-0886161-1  | 031     |         |         | NOX SIP Call                           |
| 42045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1743283-12 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1743283-12 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1743283-12 | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | PM10  | -9   | 96.43 | 100 | 100 | -9  | 13-0555930-2  | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | PM10  | -9   | 96.43 | 100 | 100 | -9  | 13-0555930-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-0555930-2  | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-0555930-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0555930-2  | 040     |         |         | MACT: Industrial Boiler/Process Heater |
| 42047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0555930-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 13-0872805-6  | 037     |         |         | NOX SIP Call                           |
| 42049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 13-0872805-6  | 040     |         |         | NOX SIP Call                           |
| 42049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 14-0689340-1  | 032     |         |         | NOX SIP Call                           |
| 42049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 43-1529268-1  | 203     |         |         | NOX SIP Call                           |
| 42049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 06-1420986-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-0872805-6  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-0872805-6  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-0872805-6  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 14-0689340-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 14-0689340-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 14-0689340-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 14-0689340-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 25-1547051-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 25-1547051-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 43-1529268-1  | 203     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 06-1420986-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-0872805-6  | 035     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-0872805-6  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-0872805-6  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 14-0689340-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 14-0689340-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 14-0689340-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 14-0689340-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 25-1547051-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 25-1547051-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 43-1529268-1  | 203     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 06-1420986-10 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0872805-6  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0872805-6  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-0872805-6  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 14-0689340-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 14-0689340-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 14-0689340-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 14-0689340-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1547051-7  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1547051-7  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 43-1529268-1  | 203     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-16 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-16 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 23-6002831-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-16 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-16 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6002831-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-16 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-16 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-18 | 031     |         |         | NOX SIP Call                           |
| 42063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-18 | 032     |         |         | NOX SIP Call                           |
| 42063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-18 | 033     |         |         | NOX SIP Call                           |
| 42063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-18 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-18 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-18 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-18 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-17 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-17 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-17 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0959590-4  | 034A    |         |         | NOX SIP Call                           |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 89.50 | 100 | 100 | -9  | 23-0366390-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 23-0785060-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-4  | 034A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2464652-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-2464652-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0360210-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-0366390-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-0785060-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-4  | 034A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2464652-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-2464652-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0360210-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0360210-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0360210-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0366390-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0785060-1  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0959590-4  | 034A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2464652-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2464652-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42073  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-0493660-7  | 501     |         |         | NOX SIP Call                           |
| 42073  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-0493660-7  | 502     |         |         | NOX SIP Call                           |
| 42073  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 72-0296500-1  | 226     |         |         | NOX SIP Call                           |
| 42073  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 72-0296500-1  | 227     |         |         | NOX SIP Call                           |
| 42073  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 72-0296500-1  | 228     |         |         | NOX SIP Call                           |
| 42075  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-6002830-1  | 034A    |         |         | NOX SIP Call                           |
| 42075  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 36-4119340-1  |         |         |         | MACT: Lime Manufacturing               |
| 42075  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 36-4119340-1  |         |         |         | MACT: Lime Manufacturing               |
| 42075  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 36-4119340-1  |         |         |         | MACT: Lime Manufacturing               |
| 42077  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 58-1290226-1  | 101     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42077  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 58-1290226-1  | 114     |         |         | NOX SIP Call                           |
| 42077  | -9  | PM10  | -9   | 46.00 | 100 | 100 | -9  | 23-6003113-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | PM10  | -9   | 46.00 | 100 | 100 | -9  | 23-6003113-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-1650159-1  | 031     |         |         | NOX SIP Call                           |
| 42079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1650159-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | PM10  | -9   | 52.00 | 100 | 100 | -9  | 23-6002831-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | PM10  | -9   | 52.00 | 100 | 100 | -9  | 23-6002831-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1650159-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1650159-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-13 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-13 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42081  | -9  | PM10  | -9   | 91.36 | 100 | 100 | -9  | 25-1588399-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42081  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-1588399-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1588399-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-3550228-1  | 031A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-3550228-1  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 13-3550228-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 22-2318612-2  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 75-1462427-2  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM10  | -9   | 99.36 | 100 | 100 | -9  | 75-1462427-2  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-3550228-1  | 031A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-3550228-1  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 13-3550228-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 22-2318612-2  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 75-1462427-2  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 75-1462427-2  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-3550228-1  | 031A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-3550228-1  | 032A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 13-3550228-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 22-2318612-2  | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75-1462427-2  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 75-1462427-2  | 101     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 042     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 043     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 042     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-2  | 043     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-2  | 041     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-2  | 042     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-2  | 043     |         |         | MACT: Industrial Boiler/Process Heater |
| 42091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-15 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM10  | -9   | 88.78 | 100 | 100 | -9  | 23-6003113-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM10  | -9   | 88.78 | 100 | 100 | -9  | 23-6003113-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM10  | -9   | 88.78 | 100 | 100 | -9  | 23-6003113-6  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-6  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-6  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-0493660-3  | 142     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-0493660-3  | 103     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-0493660-3  | 104     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-2360725-1  | 101     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 23-2360725-1  | 102     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2557529-2  | 101A    |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2557529-2  | 103A    |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2683633-1  | 001     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3022600-16 | 031     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3022600-16 | 032     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3022600-16 | 036     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-6  | 031     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-6  | 032     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 94-2626215-1  | 102     |         |         | NOX SIP Call                           |
| 42095  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 94-2626215-1  | 122     |         |         | NOX SIP Call                           |
| 42095  | -9  | PM10  | -9   | 99.34 | 100 | 100 | -9  | 23-2557529-2  | 101A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 99.34 | 100 | 100 | -9  | 23-2557529-2  | 103A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 23-2683633-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3022600-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3022600-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-2557529-2  | 101A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-2557529-2  | 103A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-2683633-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3022600-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3022600-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 23-2557529-2  | 101A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 42.40 | 100 | 100 | -9  | 23-2557529-2  | 103A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2683633-1  | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-3022600-16 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-3022600-16 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-6  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42095  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-6  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42097  | -9  | PM10  | -9   | 99.76 | 100 | 100 | -9  | 38-2720480-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42097  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 38-2720480-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 38-2720480-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210101501    | 020     |         |         | NOX SIP Call                           |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210101501    | 021     |         |         | NOX SIP Call                           |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210101501    | 022     |         |         | NOX SIP Call                           |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210101501    | 023     |         |         | NOX SIP Call                           |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210101551    | 052     |         |         | NOX SIP Call                           |
| 42101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4210103489    | 001     |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 02-0393452-1  | 031     |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-1596648-1  | CU031   |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2366929-1  | 031     |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2387116-1  | 031     |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-2387116-1  | 032     |         |         | NOX SIP Call                           |
| 42107  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 31-1628703-1  | 031     |         |         | NOX SIP Call                           |
| 42107  | -9  | PM10  | -9   | 99.95 | 100 | 100 | -9  | 02-0393452-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 23-1596648-1  | CU031   |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM10  | -9   | 99.92 | 100 | 100 | -9  | 23-2366929-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM10  | -9   | 99.27 | 100 | 100 | -9  | 23-2387116-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM10  | -9   | 99.27 | 100 | 100 | -9  | 23-2387116-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM10  | -9   | 99.79 | 100 | 100 | -9  | 31-1628703-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 02-0393452-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 23-1596648-1  | CU031   |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | 23-2366929-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-2387116-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 23-2387116-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 31-1628703-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 86.56 | 100 | 100 | -9  | 02-0393452-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 23-1596648-1  | CU031   |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2366929-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 80.03 | 100 | 100 | -9  | 23-2387116-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 80.03 | 100 | 100 | -9  | 23-2387116-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42107  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 31-1628703-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0959590-10 | 033     |         |         | NOX SIP Call                           |
| 42109  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0959590-10 | 034     |         |         | NOX SIP Call                           |
| 42109  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0959590-10 | 035     |         |         | NOX SIP Call                           |
| 42109  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0959590-10 | 036     |         |         | NOX SIP Call                           |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1232284-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1232284-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1353385-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-1353385-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 47-0463247-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-0959590-10 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1232284-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1232284-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1353385-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-1353385-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-13 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 47-0463247-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0959590-10 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0959590-10 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0959590-10 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0959590-10 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1232284-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1232284-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1353385-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-1353385-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-13 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-13 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-13 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 47-0463247-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-19 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-19 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-19 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-12 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 56-1660880-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6003113-12 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 56-1660880-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-12 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42119  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 56-1660880-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 04-2975595-1  | 031     |         |         | NOX SIP Call                           |
| 42121  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 04-2975595-1  | 032     |         |         | NOX SIP Call                           |
| 42121  | -9  | PM10  | -9   | 99.98 | 100 | 100 | -9  | 04-2975595-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 99.98 | 100 | 100 | -9  | 04-2975595-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 87.52 | 100 | 100 | -9  | 23-6003113-23 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 87.52 | 100 | 100 | -9  | 23-6003113-23 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 87.52 | 100 | 100 | -9  | 23-6003113-23 | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 93.58 | 100 | 100 | -9  | 25-0742820-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 93.58 | 100 | 100 | -9  | 25-0742820-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM10  | -9   | 93.58 | 100 | 100 | -9  | 25-0742820-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID       | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------------|---------|---------|---------|--|
| 42121  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 04-2975595-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 04-2975595-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-23 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-23 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-23 | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-0742820-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-0742820-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-0742820-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 04-2975595-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 04-2975595-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-23 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-23 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-23 | 037     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0742820-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0742820-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0742820-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-2  | 031     |         |         | NOX SIP Call                           |
| 42123  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-2  | 032     |         |         | NOX SIP Call                           |
| 42123  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-2  | 033     |         |         | NOX SIP Call                           |
| 42123  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2154847-2  | 034     |         |         | NOX SIP Call                           |
| 42123  | -9  | PM10  | -9   | 67.30 | 100 | 100 | -9  | 23-6003113-14 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-14 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 52-2154847-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-14 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-2  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-2  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-2  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 52-2154847-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-2  | 031     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-2  | 032     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-2  | 033     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3020481-2  | 034     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2201498-1  | 031     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2201498-1  | 032     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2201498-1  | 033     |         |         | NOX SIP Call                           |
| 42125  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 52-2201498-1  | 034     |         |         | NOX SIP Call                           |
| 42125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 52-2201498-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 52-2201498-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 52-2201498-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 52-2201498-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3020481-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 52-2201498-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 52-2201498-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 52-2201498-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 52-2201498-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | SO2   | -9   | 99.90 | 100 | 100 | -9  | 23-3020481-2  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | SO2   | -9   | 89.44 | 100 | 100 | -9  | 52-2201498-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | SO2   | -9   | 89.44 | 100 | 100 | -9  | 52-2201498-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | SO2   | -9   | 89.44 | 100 | 100 | -9  | 52-2201498-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42125  | -9  | SO2   | -9   | 89.44 | 100 | 100 | -9  | 52-2201498-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42127  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-12 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42127  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-6002831-12 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6002831-12 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 25-1588399-3  | 805     |         |         | NOX SIP Call                           |
| 42129  | -9  | PM10  | -9   | 90.40 | 100 | 100 | -9  | 23-6003113-11 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM10  | -9   | 90.40 | 100 | 100 | -9  | 23-6003113-11 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM10  | -9   | 90.40 | 100 | 100 | -9  | 23-6003113-11 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 25-0964126-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 25-0964126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM10  | -9   | 87.40 | 100 | 100 | -9  | 25-1364894-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-6003113-11 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 23-6003113-11 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 23-6003113-11 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-0964126-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-0964126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 25-1364894-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-11 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-11 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-6003113-11 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0964126-1  | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-0964126-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 25-1364894-1  | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42131  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 31-0590862-1  | 032A    |         |         | NOX SIP Call                           |
| 42131  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 31-0590862-1  | 034A    |         |         | NOX SIP Call                           |
| 42131  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 31-0590862-1  | 035     |         |         | NOX SIP Call                           |
| 42131  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 31-0590862-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42131  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 31-0590862-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42131  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 31-0590862-1  | 033A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0628360-1  | 034     |         |         | NOX SIP Call                           |
| 42133  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0628360-1  | 035     |         |         | NOX SIP Call                           |
| 42133  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0628360-1  | 036     |         |         | NOX SIP Call                           |
| 42133  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-0628360-1  | 037     |         |         | NOX SIP Call                           |
| 42133  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 23-3022596-5  | 031A    |         |         | NOX SIP Call                           |
| 42133  | -9  | PM10  | -9   | 79.80 | 100 | 100 | -9  | 23-0628360-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 79.80 | 100 | 100 | -9  | 23-0628360-1  | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 79.80 | 100 | 100 | -9  | 23-0628360-1  | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 99.30 | 100 | 100 | -9  | 23-0628360-1  | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 89.80 | 100 | 100 | -9  | 23-2316195-1  | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 23-3022596-5  | 031A    |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID      | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|--------------|---------|---------|---------|--|
| 42133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 36-3899269-3 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 93-0672034-1 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-0628360-1 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-0628360-1 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-0628360-1 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-0628360-1 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 23-2316195-1 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 23-3022596-5 | 031A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 36-3899269-3 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 93-0672034-1 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0628360-1 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0628360-1 | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-0628360-1 | 035     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 89.54 | 100 | 100 | -9  | 23-0628360-1 | 036     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-2316195-1 | 033     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 23-3022596-5 | 031A    |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 36-3899269-3 | 032     |         |         | MACT: Industrial Boiler/Process Heater |
| 42133  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 93-0672034-1 | 031     |         |         | MACT: Industrial Boiler/Process Heater |
| 44009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00012        | 001     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0011    | 001     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0011    | 002     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0011    | 003     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0011    | 004     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0011    | 011     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0044    | 001     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0044    | 002     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0044    | 003     |         |         | NOX SIP Call                           |
| 45003  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0080-0044    | 004     |         |         | NOX SIP Call                           |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0041    | A01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0041    | A02     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0041    | H01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0080-0041    | H03     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM10  | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0080-0011    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0080-0041    | A01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0080-0041    | A02     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0080-0041    | H01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 45.95 | 100 | 100 | -9  | 0080-0041    | H03     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | PM2_5 | -9   | 99.90 | 100 | 100 | -9  | 0080-0044    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0011    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0011    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0041    | A01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0041    | A02     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0041    | H01     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0041    | H03     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0044    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0044    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0044    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0080-0044    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0160-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45005  | -9  | PM2_5 | -9   | 82.00 | 100 | 100 | -9  | 0160-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0160-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 001     |         |         | NOX SIP Call                           |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 002     |         |         | NOX SIP Call                           |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 003     |         |         | NOX SIP Call                           |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 004     |         |         | NOX SIP Call                           |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 005     |         |         | NOX SIP Call                           |
| 45007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0200-0004    | 006     |         |         | NOX SIP Call                           |
| 45007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM10  | -9   | 64.55 | 100 | 100 | -9  | 0200-0011    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM10  | -9   | 64.55 | 100 | 100 | -9  | 0200-0011    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0200-0032    | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0200-0004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0200-0011    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0200-0011    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0200-0032    | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0011    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0011    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 45007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0200-0032    | SUM     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 45009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0260-0001 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0260-0001 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0260-0001 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0300-0014 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0300-0014 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0300-0014 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45013  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0360-0006 | 001     |         |         | NOX SIP Call                           |
| 45013  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0360-0006 | 002     |         |         | NOX SIP Call                           |
| 45013  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0360-0006 | 003     |         |         | NOX SIP Call                           |
| 45015  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0420-0003 | 003     |         |         | NOX SIP Call                           |
| 45015  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0420-0003 | 004     |         |         | NOX SIP Call                           |
| 45015  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0420-0006 | 004     |         |         | NOX SIP Call                           |
| 45015  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0420-0006 | 005     |         |         | NOX SIP Call                           |
| 45015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0420-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0420-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0420-0004 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM10  | -9   | 98.97 | 100 | 100 | -9  | 0420-0005 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0420-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0420-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0420-0004 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 0420-0005 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420-0004 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0420-0005 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45017  | -9  | PM10  | -9   | 92.38 | 100 | 100 | -9  | 0460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45017  | -9  | PM2_5 | -9   | 92.38 | 100 | 100 | -9  | 0460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0029 | 001     |         |         | NOX SIP Call                           |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0244 | OCA     |         |         | NOX SIP Call                           |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0272 | 001     |         |         | NOX SIP Call                           |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0272 | 002     |         |         | NOX SIP Call                           |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0272 | 003     |         |         | NOX SIP Call                           |
| 45019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0560-0272 | 004     |         |         | NOX SIP Call                           |
| 45019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0560-0160 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | PM10  | -9   | 99.93 | 100 | 100 | -9  | 0560-0244 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0560-0160 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | PM2_5 | -9   | 99.93 | 100 | 100 | -9  | 0560-0244 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0560-0160 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45019  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0560-0244 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0600-0007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0600-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0600-0007 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0600-0007 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45023  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0640-0013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45023  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0640-0013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0640-0013 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0660-0003 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0660-0003 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0660-0003 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0740-0002 | 001     |         |         | NOX SIP Call                           |
| 45029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0740-0002 | 002     |         |         | NOX SIP Call                           |
| 45029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0740-0002 | 003     |         |         | NOX SIP Call                           |
| 45029  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0740-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0740-0002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0740-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0740-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0740-0021 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0740-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0740-0002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0740-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0740-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0740-0021 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0740-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0740-0002 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0740-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0740-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0740-0021 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0820-0002 | 001     |         |         | NOX SIP Call                           |
| 45031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0820-0002 | 002     |         |         | NOX SIP Call                           |
| 45031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0820-0002 | 006     |         |         | NOX SIP Call                           |
| 45031  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0820-0012 | 004     |         |         | NOX SIP Call                           |
| 45031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0820-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 0820-0012 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 0820-0012 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0820-0012 | OCI     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0820-0045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0820-0045 | OCB     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0820-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0820-0012 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 0820-0012 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0820-0012 | OCI     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0820-0045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0820-0045 | OCB     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820-0002 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820-0012 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820-0012 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 97.98 | 100 | 100 | -9  | 0820-0012 | OCI     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820-0045 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0820-0045 | OCB     |         |         | MACT: Industrial Boiler/Process Heater |
| 45035  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0900-0002 | 001     |         |         | NOX SIP Call                           |
| 45035  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0900-0002 | 002     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 45035  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0900-0002 | 003     |         |         | NOX SIP Call                           |
| 45035  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0900-0002 | 004     |         |         | NOX SIP Call                           |
| 45035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0900-0017 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0900-0017 | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1040-0003 | 004     |         |         | NOX SIP Call                           |
| 45041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1040-0003 | 010     |         |         | NOX SIP Call                           |
| 45041  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 1040-0003 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 1040-0008 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1040-0010 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1040-0015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1040-0015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1040-0003 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1040-0008 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1040-0010 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 1040-0015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 1040-0015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1040-0003 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1040-0008 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1040-0010 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1040-0015 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1040-0015 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1140-0005 | 001     |         |         | NOX SIP Call                           |
| 45043  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1140-0005 | 002     |         |         | NOX SIP Call                           |
| 45043  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1140-0005 | 003     |         |         | NOX SIP Call                           |
| 45043  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1140-0005 | 004     |         |         | NOX SIP Call                           |
| 45043  | -9  | PM10  | -9   | 97.94 | 100 | 100 | -9  | 1140-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 97.94 | 100 | 100 | -9  | 1140-0002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM10  | -9   | 92.50 | 100 | 100 | -9  | 1140-0008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1140-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1140-0002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1140-0005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 1140-0008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1140-0002 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1140-0002 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1140-0005 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 47.19 | 100 | 100 | -9  | 1140-0005 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 71.19 | 100 | 100 | -9  | 1140-0005 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 71.19 | 100 | 100 | -9  | 1140-0005 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1140-0008 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45045  | -9  | PM10  | -9   | 50.00 | 100 | 100 | -9  | 1200-0029 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1200-0029 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1200-0029 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 001     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 002     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 003     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 004     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 005     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 006     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 007     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 008     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 009     |         |         | NOX SIP Call                           |
| 45047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1240-0075 | 010     |         |         | NOX SIP Call                           |
| 45047  | -9  | PM10  | -9   | 97.60 | 100 | 100 | -9  | 1240-0060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45047  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1240-0060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1240-0060 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM10  | -9   | 60.87 | 100 | 100 | -9  | 1280-0002 | OCG     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM10  | -9   | 61.64 | 100 | 100 | -9  | 1280-0004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM10  | -9   | 61.64 | 100 | 100 | -9  | 1280-0004 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1280-0008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 1280-0002 | OCG     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 1280-0004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 1280-0004 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1280-0008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1280-0002 | OCG     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1280-0004 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1280-0004 | OCA     |         |         | MACT: Industrial Boiler/Process Heater |
| 45049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1280-0008 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1340-0003 | 001     |         |         | NOX SIP Call                           |
| 45051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1340-0003 | 002     |         |         | NOX SIP Call                           |
| 45051  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 1340-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 1340-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 1340-0029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1340-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 1340-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1340-0029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1340-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1340-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1340-0029 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1380-0003 | 003     |         |         | NOX SIP Call                           |
| 45055  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1380-0003 | 004     |         |         | NOX SIP Call                           |
| 45055  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM10  | -9   | 80.80 | 100 | 100 | -9  | 1380-0025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 1380-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 1380-0025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 45055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1380-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1380-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1380-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1380-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1380-0025 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1460-0003 | 001     |         |         | NOX SIP Call                           |
| 45057  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1460-0003 | 002     |         |         | NOX SIP Call                           |
| 45057  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1460-0003 | 003     |         |         | NOX SIP Call                           |
| 45057  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 1460-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1460-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1460-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1460-0003 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1460-0003 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45059  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1520-0056 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45059  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1520-0056 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1520-0056 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0003 | 001     |         |         | NOX SIP Call                           |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0003 | 002     |         |         | NOX SIP Call                           |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0008 | 069     |         |         | NOX SIP Call                           |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0008 | 070     |         |         | NOX SIP Call                           |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0008 | 099     |         |         | NOX SIP Call                           |
| 45063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1560-0008 | 111     |         |         | NOX SIP Call                           |
| 45063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1560-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1560-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 070     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1560-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1560-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 070     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 1560-0008 | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1560-0003 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1560-0003 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1560-0008 | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1560-0008 | 070     |         |         | MACT: Industrial Boiler/Process Heater |
| 45063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1560-0008 | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 45065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1600-0002 | SUM     |         |         | MACT: Industrial Boiler/Process Heater |
| 45067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1660-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45067  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1660-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1660-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45069  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1680-0043 | 005     |         |         | NOX SIP Call                           |
| 45069  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 1680-0043 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45069  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 1680-0043 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1680-0043 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 1780-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | PM10  | -9   | 98.90 | 100 | 100 | -9  | 1780-0008 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 1780-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | PM2_5 | -9   | 99.06 | 100 | 100 | -9  | 1780-0008 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1780-0007 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1780-0008 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 1860-0005 | 001     |         |         | NOX SIP Call                           |
| 45075  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 1860-0005 | 002     |         |         | NOX SIP Call                           |
| 45075  | -9  | PM10  | -9   | 88.43 | 100 | 100 | -9  | 1860-0036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 1860-0036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM10  | -9   | 97.78 | 100 | 100 | -9  | 1860-0038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 1860-0072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 1860-0072 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM2_5 | -9   | 89.68 | 100 | 100 | -9  | 1860-0036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 1860-0036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM2_5 | -9   | 98.12 | 100 | 100 | -9  | 1860-0038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 1860-0072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 1860-0072 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1860-0036 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1860-0036 | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1860-0038 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1860-0072 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1860-0072 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | PM10  | -9   | 52.00 | 100 | 100 | -9  | 1880-0010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1880-0010 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | 1880-0010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1880-0010 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1880-0010 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1880-0010 | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1900-0046 | 001     |         |         | NOX SIP Call                           |
| 45079  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 1900-0046 | 002     |         |         | NOX SIP Call                           |
| 45079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1900-0033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1900-0033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM10  | -9   | 99.87 | 100 | 100 | -9  | 1900-0046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM10  | -9   | 99.65 | 100 | 100 | -9  | 1900-0046 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1900-0033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1900-0033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 1900-0046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | PM2_5 | -9   | 99.48 | 100 | 100 | -9  | 1900-0046 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1900-0033 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1900-0033 | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1900-0046 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 45079  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 1900-0046 | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 45083  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2060-0179 | 001     |         |         | NOX SIP Call                           |
| 45083  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2060-0179 | 002     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|---|
| 45083  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2060-0179  | 003     |         |         | NOX SIP Call                                |
| 45083  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2060-0179  | 004     |         |         | NOX SIP Call                                |
| 45083  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 2060-0179  | 005     |         |         | NOX SIP Call                                |
| 45083  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 2060-0230  |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 45085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2140-0014  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2140-0016  | SUM     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2140-0014  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2140-0016  | SUM     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2140-0014  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2140-0016  | SUM     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 2180-0003  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 2180-0003  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM10  | -9   | 93.86 | 100 | 100 | -9  | 2180-0003  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 2180-0003  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2180-0003  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2180-0003  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2180-0003  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2180-0003  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2180-0003  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 99.16 | 100 | 100 | -9  | 2440-0005  | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 94.65 | 100 | 100 | -9  | 2440-0012  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM10  | -9   | 94.65 | 100 | 100 | -9  | 2440-0012  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 99.16 | 100 | 100 | -9  | 2440-0005  | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 96.40 | 100 | 100 | -9  | 2440-0010  | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2440-0012  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2440-0012  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0005  | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0010  | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0010  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0010  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0010  | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0010  | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0012  | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 45091  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2440-0012  | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0086       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0086       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0086       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0086       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0086       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0086       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46081  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46081  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 46103  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0014       |         |         |         | MACT: Lime Manufacturing                    |
| 46103  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0014       |         |         |         | MACT: Lime Manufacturing                    |
| 46103  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0014       |         |         |         | MACT: Lime Manufacturing                    |
| 47001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009       | 002     |         |         | NOX SIP Call                                |
| 47001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0020       | 002     |         |         | NOX SIP Call                                |
| 47001  | -9  | PM10  | -9   | 99.53 | 100 | 100 | -9  | 0020       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0067       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | PM10  | -9   | 99.53 | 100 | 100 | -9  | 0067       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0020       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0067       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0067       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0067       | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0067       | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0090       | 016     |         |         | NOX SIP Call                                |
| 47011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | PM10  | -9   | 48.74 | 100 | 100 | -9  | 0022       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | PM10  | -9   | 48.74 | 100 | 100 | -9  | 0022       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0022       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0022       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022       | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022       | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0090       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0090       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0090       | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4703700002 | 009     |         |         | NOX SIP Call                                |
| 47037  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4703700002 | 010     |         |         | NOX SIP Call                                |
| 47037  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 4703700002 | 011     |         |         | NOX SIP Call                                |
| 47037  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 4703700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 4703700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 4703700002 | 011     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4703700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 4703700039 | 207     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 4703700039 | 208     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 4703700039 | 209     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 4703700045 | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.99 | 100 | 100 | -9  | 4703700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4703700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 4703700212 | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47037  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 4703700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID    | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|------------|---------|---------|---------|--|
| 47037  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 4703700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 4703700002 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 4703700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 4703700039 | 207     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 4703700039 | 208     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 4703700039 | 209     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 4703700045 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 4703700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 4703700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 4703700212 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700002 | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700002 | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700002 | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700038 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700039 | 207     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700039 | 208     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700039 | 209     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700045 | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700045 | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700081 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4703700212 | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | PM10  | -9   | 93.70 | 100 | 100 | -9  | 0010       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0010       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010       | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0043       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47055  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0043       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47055  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0043       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0197       | 009     |         |         | NOX SIP Call                           |
| 47063  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0197       | 010     |         |         | NOX SIP Call                           |
| 47063  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0013       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0032       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0197       | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0197       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0013       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0032       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0197       | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0197       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005       | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0013       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0032       | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0197       | 009     |         |         | MACT: Industrial Boiler/Process Heater |
| 47063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0197       | 010     |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 2730       | 0002    |         |         | NOX SIP Call                           |
| 47065  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 3070       | 0001    |         |         | NOX SIP Call                           |
| 47065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0910       | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0940       | 0010    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1340       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 2730       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 4000       | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0910       | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0940       | 0010    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1340       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 2730       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 4000       | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0910       | 0004    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0940       | 0010    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1340       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2730       | 0002    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4000       | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 47065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 6001       | 0001    |         |         | MACT: Industrial Boiler/Process Heater |
| 47069  | -9  | PM10  | -9   | 94.65 | 100 | 100 | -9  | 0051       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47069  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0051       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0051       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47071  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002       | 001     |         |         | NOX SIP Call                           |
| 47073  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0028       | 005     |         |         | NOX SIP Call                           |
| 47073  | -9  | PM10  | -9   | 99.73 | 100 | 100 | -9  | 0028       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 47073  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 0028       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 47073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0028       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 47075  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0053       | 007     |         |         | NOX SIP Call                           |
| 47075  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0053       | 008     |         |         | NOX SIP Call                           |
| 47079  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0024       | 007     |         |         | NOX SIP Call                           |
| 47081  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0002       | 001     |         |         | NOX SIP Call                           |
| 47081  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0002       | 002     |         |         | NOX SIP Call                           |
| 47081  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0002       | 003     |         |         | NOX SIP Call                           |
| 47085  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 0010       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47085  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0010       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47085  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0010       | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47093  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0008       | 001     |         |         | NOX SIP Call                           |
| 47093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0018       | 001     |         |         | NOX SIP Call                           |
| 47093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0057       | 001     |         |         | NOX SIP Call                           |
| 47105  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0081       | 005     |         |         | NOX SIP Call                           |
| 47105  | -9  | PM10  | -9   | 99.67 | 100 | 100 | -9  | 0081       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 47105  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0099       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47105  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0081       | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 47105  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0099       | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0081       | 005     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 47105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0099    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0012    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM10  | -9   | 97.38 | 100 | 100 | -9  | 0012    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0012    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0012    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0012    | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0012    | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0020    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM10  | -9   | 42.32 | 100 | 100 | -9  | 0020    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM10  | -9   | 42.32 | 100 | 100 | -9  | 0020    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM10  | -9   | 89.12 | 100 | 100 | -9  | 0020    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0185    | 029     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0020    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM2_5 | -9   | 42.16 | 100 | 100 | -9  | 0020    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM2_5 | -9   | 42.16 | 100 | 100 | -9  | 0020    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0020    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0185    | 029     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 007     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0020    | 009     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0185    | 029     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47119  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0132    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 47123  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0090    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47123  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0090    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47123  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0090    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47125  | -9  | PM10  | -9   | 81.70 | 100 | 100 | -9  | 0050    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47125  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0050    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0050    | 008     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47127  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47127  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 010     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47135  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0001    | 001     |         |         | NOX SIP Call                                |
| 47143  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0049    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47143  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0049    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47143  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0049    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47143  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0049    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0049    | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0049    | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47145  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0112    | 001     |         |         | NOX SIP Call                                |
| 47145  | -9  | PM10  | -9   | 77.14 | 100 | 100 | -9  | 0014    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47145  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0014    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47145  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0014    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0155    | 01      |         |         | NOX SIP Call                                |
| 47149  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0064    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | PM10  | -9   | 99.60 | 100 | 100 | -9  | 0155    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0064    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0155    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0064    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0155    | 01      |         |         | MACT: Industrial Boiler/Process Heater      |
| 47149  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 0155    |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 47151  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0002    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 005     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47151  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 006     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47155  | -9  | PM10  | -9   | 91.49 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47155  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47155  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097     | 2       |         |         | NOX SIP Call                                |
| 47157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 097     | 3       |         |         | NOX SIP Call                                |
| 47157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 528     | 1       |         |         | NOX SIP Call                                |
| 47157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 528     | 2       |         |         | NOX SIP Call                                |
| 47157  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 528     | 3       |         |         | NOX SIP Call                                |
| 47157  | -9  | PM10  | -9   | 87.74 | 100 | 100 | -9  | 045     | 8001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 87.70 | 100 | 100 | -9  | 045     | 8301    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 87.69 | 100 | 100 | -9  | 045     | 8302    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 524     | EU2     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 528     | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 528     | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 528     | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 87.67 | 100 | 100 | -9  | 045     | 8001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 87.52 | 100 | 100 | -9  | 045     | 8301    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 524     | EU2     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 528     | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 528     | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 528     | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 045     | 8001    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 045     | 8301    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 045     | 8302    |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 524     | EU2     |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 528     | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 528     | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 47157  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 528     | 3       |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 47161  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0011    | 003     |         |         | NOX SIP Call                           |
| 47161  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0011    | 004     |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 020101  |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 021520  |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 240609  |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 261501  |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0018    | 002     |         |         | NOX SIP Call                           |
| 47163  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0022    | 017     |         |         | NOX SIP Call                           |
| 47163  | -9  | PM10  | -9   | 93.18 | 100 | 100 | -9  | 0003    | 020101  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 93.53 | 100 | 100 | -9  | 0003    | 021520  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0003    | 027425  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 260904  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0003    | 261003  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 0003    | 261501  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 266105  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 99.73 | 100 | 100 | -9  | 0018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 97.38 | 100 | 100 | -9  | 0022    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 98.00 | 100 | 100 | -9  | 0022    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 49.44 | 100 | 100 | -9  | 0039    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0003    | 020101  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0003    | 021520  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0003    | 027425  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003    | 260904  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0003    | 261003  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0003    | 261501  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0003    | 266105  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 99.22 | 100 | 100 | -9  | 0018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0022    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 0022    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0039    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 020101  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 021520  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 027425  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 260904  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 261003  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 0003    | 261501  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 266105  |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0018    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0039    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0055    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47165  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0008    | 87D01   |         |         | NOX SIP Call                           |
| 47165  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0008    | 87D02   |         |         | NOX SIP Call                           |
| 47165  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0014    | 001     |         |         | NOX SIP Call                           |
| 47165  | -9  | PM10  | -9   | 53.48 | 100 | 100 | -9  | 0022    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47165  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0022    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0022    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47167  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0067    | 001     |         |         | NOX SIP Call                           |
| 47173  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0023    |         |         |         | MACT: Lime Manufacturing               |
| 47173  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0028    |         |         |         | MACT: Lime Manufacturing               |
| 47173  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0023    |         |         |         | MACT: Lime Manufacturing               |
| 47173  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0028    |         |         |         | MACT: Lime Manufacturing               |
| 47173  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0023    |         |         |         | MACT: Lime Manufacturing               |
| 47173  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0028    |         |         |         | MACT: Lime Manufacturing               |
| 47177  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47177  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47177  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 48.74 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0005    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 99.51 | 100 | 100 | -9  | 0029    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0052    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0226    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 24      | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0005    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0029    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0052    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0226    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 24      | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0005    | 011     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0029    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0052    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0226    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47179  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 24      | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0062    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0062    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0062    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0062    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0062    | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 47181  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0062    | 008     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | PM10  | -9   | 77.16 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0030    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0030    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0014    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 47183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0030    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | AC0017B | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | AC0018W | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | AC0018W | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | AC0018W | 043     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | AC0018W | 063     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | AC0017B | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 48005  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | AC0018W | 013     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                             |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 48005  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | AC0018W | 015     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | AC0018W | 043     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | AC0018W | 063     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | AC0017B | 017     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | AC0018W | 013     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | AC0018W | 015     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | AC0018W | 043     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48005  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | AC0018W | 063     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48029  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | BG1104G |         |         |         | MACT: Lime Manufacturing                |
| 48029  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | BG1104G |         |         |         | MACT: Lime Manufacturing                |
| 48029  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | BG1104G |         |         |         | MACT: Lime Manufacturing                |
| 48029  | 30500606 | NOX   | -9   | 48.81 | 100 | 100 | -9  | BG0259G | 041     | 0041    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48029  | 30500709 | NOX   | -9   | 47.55 | 100 | 100 | -9  | BG0045E | 005     | 0009    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48035  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | BJ0001T |         |         |         | MACT: Lime Manufacturing                |
| 48035  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | BJ0001T |         |         |         | MACT: Lime Manufacturing                |
| 48035  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | BJ0001T |         |         |         | MACT: Lime Manufacturing                |
| 48037  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | BK0025R | 066     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | BK0025R | 067     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BK0025R | 068     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BK0025R | 331     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | BK0025R | 066     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | BK0025R | 067     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BK0025R | 068     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BK0025R | 331     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BK0025R | 066     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BK0025R | 067     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BK0025R | 068     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48037  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BK0025R | 331     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 969     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 973     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 974     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 975     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 969     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 973     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 974     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | BL0021O | 975     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0021O | 969     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0021O | 973     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0021O | 974     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0021O | 975     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0022M | 707     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48039  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | BL0268B | 029     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48057  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | CB0028T | B08     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48057  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | CB0034B | 070     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48057  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | CB0042C | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48067  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | CG0010G | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48067  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | CG0010G | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48067  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | CG0010G | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48091  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | CS0020O |         |         |         | MACT: Lime Manufacturing                |
| 48091  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | CS0020O |         |         |         | MACT: Lime Manufacturing                |
| 48091  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | CS0020O |         |         |         | MACT: Lime Manufacturing                |
| 48091  | 30500606 | NOX   | -9   | 6.04  | 100 | 100 | -9  | CS0018B | 011     | 0011    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48091  | 30500622 | NOX   | -9   | 13.58 | 100 | 100 | -9  | CS0022K | 067     | 0016    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48113  | -9       | NOX   | -9   | 70.00 | 100 | 100 | -9  | DB0087J | 001     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48113  | -9       | NOX   | -9   | 70.00 | 100 | 100 | -9  | DB0087J | 002     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48113  | -9       | NOX   | -9   | 84.00 | 100 | 100 | -9  | DB0087J | 003     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48113  | -9       | NOX   | -9   | 72.73 | 100 | 100 | -9  | DB0820B | 008     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48113  | -9       | NOX   | -9   | 72.73 | 100 | 100 | -9  | DB0820B | 009     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48113  | -9       | NOX   | -9   | 72.73 | 100 | 100 | -9  | DB0820B | 179     |         |         | Dallas SIP: Point Source NOx Rules      |
| 48121  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 264     | 2       |         |         | Dallas SIP: Point Source NOx Rules      |
| 48121  | -9       | NOX   | -9   | 82.00 | 100 | 100 | -9  | 264     | 3       |         |         | Dallas SIP: Point Source NOx Rules      |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 222     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 223     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 233     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 250     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 334     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48135  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EB0057B | 351     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48139  | 30500606 | NOX   | -9   | 22.22 | 100 | 100 | -9  | ED0099J | 007     | 0007    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48139  | 30500706 | NOX   | -9   | 33.48 | 100 | 100 | -9  | ED0066B | 071     | 0011    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48139  | 30500706 | NOX   | -9   | 33.48 | 100 | 100 | -9  | ED0066B | 074     | 0014    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48141  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | EE0007G | 070     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48141  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | EE0007G | 070     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48141  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | EE0007G | 070     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48167  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | GB0073P | 064     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48167  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | GB0073P | 064     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48167  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | GB0028U | 079     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48167  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | GB0073P | 064     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | GH0004O | 090     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | GH0004O | 091     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | GH0004O | 090     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | GH0004O | 091     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | SO2   | -9   | 95.20 | 100 | 100 | -9  | GH0004O | 090     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | SO2   | -9   | 95.20 | 100 | 100 | -9  | GH0004O | 091     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48179  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | GH0004O | 490     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48183  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | GJ0003W | 025     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48185  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | GK0012K | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48185  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | GK0012K | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48185  | -9       | SO2   | -9   | 90.40 | 100 | 100 | -9  | GK0012K | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48199  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HF0011W | 026     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48199  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HF0011W | 026     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48199  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HF0011W | 026     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 885     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 887     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 892     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 893     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0052U | 016     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 145     |         |         | MACT: Industrial Boiler/Process Heater  |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 174     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 175     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 282     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 288     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 295     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 298     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 304     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 361     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 411     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 519     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 520     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 523     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 528     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 532     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 549     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 558     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0323M | 086     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 082     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0659W | G29     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0659W | G30     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0659W | K76     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0659W | N31     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | HG0674D | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG0697O | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG1451S | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | HG1495V | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | HX0029W | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | HX0029W | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 885     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 887     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 892     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0048L | 893     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0052U | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 145     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 174     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 175     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 282     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 288     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 295     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 298     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 304     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 361     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 411     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 519     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 520     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 523     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 528     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 532     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 549     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0229F | 558     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0323M | 086     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 082     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0457N | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0659W | G29     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0659W | G30     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0659W | K76     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0659W | N31     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | HG0674D | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG0697O | 018     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG1451S | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HG1495V | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HX0029W | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HX0029W | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0010N | 025     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0033B | 456     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0048L | 885     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0048L | 887     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0048L | 892     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0048L | 893     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0052U | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 145     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 174     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 175     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 282     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 288     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 295     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 298     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 304     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 361     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 411     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 519     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 520     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 523     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 528     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 549     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0229F | 558     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0323M | 086     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0457N | 007     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0457N | 082     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0457N | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0459J | 527     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0459J | 639     |         |         | MACT: Industrial Boiler/Process Heater |
| 48201  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0564L | 011     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC      | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                             |
|--------|----------|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0632T | 132     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0632T | 232     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0632T | 239     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0632T | 318     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0632T | 463     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0659W | G29     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0659W | G30     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0659W | K76     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0659W | N31     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 95.20 | 100 | 100 | -9  | HG0674D | 006     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0697O | 018     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0770G | 196     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0770G | 306     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0770G | 320     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0770G | 321     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0813N | 003     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG0813N | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG1249P | 008     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG1249P | 020     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HG1451S | 013     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 85.60 | 100 | 100 | -9  | HG1495V | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX0029W | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX0029W | 003     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX1726J | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX1726J | 067     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX2334A | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48201  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HX2334A | 006     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HH0042M | 148     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | HH0042M | 149     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HH0042M | 148     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | HH0042M | 149     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | 148     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | 149     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | 389     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | 404     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | 996     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | C53     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | C64     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48203  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HH0042M | K70     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48209  | 30500623 | NOX   | -9   | 14.64 | 100 | 100 | -9  | HK0014M | 001     | 0001    | 1       | Dallas SIP: Cement Kiln Emission Limits |
| 48209  | 30500623 | NOX   | -9   | 14.64 | 100 | 100 | -9  | HK0014M | 001     | 0015    | 2       | Dallas SIP: Cement Kiln Emission Limits |
| 48215  | -9       | PM10  | -9   | 89.98 | 100 | 100 | -9  | HN0083G | 013     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM10  | -9   | 89.98 | 100 | 100 | -9  | HN0083G | 014     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM10  | -9   | 89.98 | 100 | 100 | -9  | HN0083G | 015     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM10  | -9   | 89.98 | 100 | 100 | -9  | HN0083G | 016     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HN0083G | 013     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HN0083G | 014     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HN0083G | 015     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | HN0083G | 016     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HN0083G | 013     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HN0083G | 014     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HN0083G | 015     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48215  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HN0083G | 016     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48233  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | HW0013C | 168     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | JC0003K | 007     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 94.00 | 100 | 100 | -9  | JC0003K | 008     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JC0013H | 011     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 003     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 52.00 | 100 | 100 | -9  | JC0003K | 007     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | JC0003K | 008     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JC0013H | 011     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 002     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 003     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48241  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JC0028R | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48245  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | JE0425E | 006     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48245  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | JE0425E | 006     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48245  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | JE0425E | 006     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48245  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | JE0508W | 093     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48251  | -9       | PM10  | -9   | 28.00 | 100 | 100 | -9  | JH0045I |         |         |         | MACT: Lime Manufacturing                |
| 48251  | -9       | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | JH0045I |         |         |         | MACT: Lime Manufacturing                |
| 48251  | -9       | SO2   | -9   | 20.00 | 100 | 100 | -9  | JH0045I |         |         |         | MACT: Lime Manufacturing                |
| 48267  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 012     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | KG0003S | 012     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | KG0003S | 001     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | KG0003S | 004     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | KG0003S | 005     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48267  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | KG0003S | 012     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48291  | -9       | PM10  | -9   | 40.00 | 100 | 100 | -9  | LH0026B | 014     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48291  | -9       | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | LH0026B | 014     |         |         | MACT: Industrial Boiler/Process Heater  |
| 48291  | -9       | SO2   | -9   | 4.00  | 100 | 100 | -9  | LH0026B | 014     |         |         | MACT: Industrial Boiler/Process Heater  |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 48331  | -9  | NOX   | -9   | 73.00 | 100 | 100 | -9  | MM0001T | 010     |         |         | DOJ Settlements                             |
| 48331  | -9  | NOX   | -9   | 73.00 | 100 | 100 | -9  | MM0001T | 011     |         |         | DOJ Settlements                             |
| 48331  | -9  | NOX   | -9   | 73.00 | 100 | 100 | -9  | MM0001T | 012     |         |         | DOJ Settlements                             |
| 48331  | -9  | SO2   | -9   | 88.00 | 100 | 100 | -9  | MM0001T | 010     |         |         | DOJ Settlements                             |
| 48331  | -9  | SO2   | -9   | 88.00 | 100 | 100 | -9  | MM0001T | 011     |         |         | DOJ Settlements                             |
| 48331  | -9  | SO2   | -9   | 88.00 | 100 | 100 | -9  | MM0001T | 012     |         |         | DOJ Settlements                             |
| 48341  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | MR0003G | 023     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48341  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | MR0003G | 024     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48341  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | MR0003G | 023     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48341  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | MR0003G | 024     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48341  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | MR0003G | 023     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48341  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | MR0003G | 024     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | NA0055O | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | NA0055O | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | NA0055O | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | NA0055O | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NA0055O | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48347  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NA0055O | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48351  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | NC0003L | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48351  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | NC0003L | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48351  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NC0003L | 004     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48355  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NE0051B | 048     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48355  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NE0051B | 049     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48355  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | NE0122D | 446     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | OC0010U | 061     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | OC0019C | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | OC0010U | 061     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | OC0019C | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | OC0007J | 436     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | OC0010U | 061     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48361  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | OC0019C | 003     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | PF0002P | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | PF0002P | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | PF0003N | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | PF0002P | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | PF0003N | 002     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | PF0003N | 015     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | PF0003N | 016     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48373  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | PF0003N | 031     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | RI0035C | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | RI0035C | 021     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | RI0035C | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | RI0035C | 021     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | RI0035C | 017     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48395  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | RI0035C | 021     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48403  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | SA0005N | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48403  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | SA0005N | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48403  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | SA0005N | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48439  | -9  | NOX   | -9   | 72.31 | 100 | 100 | -9  | TA0115B | 007     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 70.00 | 100 | 100 | -9  | TA0115B | 008     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 67.27 | 100 | 100 | -9  | TA0115B | 009     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 70.00 | 100 | 100 | -9  | TA0156K | 016     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 70.00 | 100 | 100 | -9  | TA0156K | 017     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 70.00 | 100 | 100 | -9  | TA0156K | 018     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 70.00 | 100 | 100 | -9  | TA0156K | 019     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | NOX   | -9   | 75.00 | 100 | 100 | -9  | TA0235N | 011     |         |         | Dallas SIP: Point Source NOx Rules          |
| 48439  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | TA0157I |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 48453  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | TH0010I |         |         |         | MACT: Lime Manufacturing                    |
| 48453  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | TH0010I |         |         |         | MACT: Lime Manufacturing                    |
| 48453  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | TH0010I |         |         |         | MACT: Lime Manufacturing                    |
| 48469  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | VC0008Q | 238     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48471  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | WA0024A | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48471  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | WA0024A | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 48471  | -9  | SO2   | -9   | 85.12 | 100 | 100 | -9  | WA0024A | 001     |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10083   | 3298    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 10083   | 3299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10096   | 11111   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10083   | 3298    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10083   | 3299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10096   | 11111   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10083   | 3298    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10083   | 3299    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10096   | 11111   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10240   | 12600   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10240   | 12600   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10240   | 12600   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10298   | 7269    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10298   | 7269    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10298   | 7269    |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13945   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13946   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13947   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13948   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900013  |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900014  |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900015  |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13945   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13946   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13947   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10572   | 13948   |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900013  |         |         | MACT: Industrial Boiler/Process Heater      |
| 49035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900014  |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 49035  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10572   | 900015  |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10572   | 13945   |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10572   | 13946   |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10572   | 13947   |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10572   | 13948   |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 99.04 | 100 | 100 | -9  | 10572   | 900013  |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 99.04 | 100 | 100 | -9  | 10572   | 900014  |         |         | MACT: Industrial Boiler/Process Heater |
| 49035  | -9  | SO2   | -9   | 99.04 | 100 | 100 | -9  | 10572   | 900015  |         |         | MACT: Industrial Boiler/Process Heater |
| 49039  | -9  | PM10  | -9   | 89.20 | 100 | 100 | -9  | 10648   | 21924   |         |         | MACT: Industrial Boiler/Process Heater |
| 49039  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10648   | 21924   |         |         | MACT: Industrial Boiler/Process Heater |
| 49039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10648   | 21924   |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 10654   | 7086    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 10654   | 7265    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10654   | 7266    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM2_5 | -9   | 99.94 | 100 | 100 | -9  | 10654   | 7086    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 10654   | 7265    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10654   | 7266    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10654   | 7086    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | SO2   | -9   | 99.90 | 100 | 100 | -9  | 10654   | 7265    |         |         | MACT: Industrial Boiler/Process Heater |
| 49041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10654   | 7266    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10676   | 13761   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10676   | 15843   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10676   | 9317    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10676   | 9323    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10676   | 13761   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10676   | 15843   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10676   | 9317    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 10676   | 9323    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10676   | 13761   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 10676   | 15843   |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 10676   | 9317    |         |         | MACT: Industrial Boiler/Process Heater |
| 49043  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 10676   | 9323    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 10707   |         |         |         | MACT: Lime Manufacturing               |
| 49045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11339   | 10347   |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11339   | 4282    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11339   | 4436    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 10707   |         |         |         | MACT: Lime Manufacturing               |
| 49045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 11339   | 10347   |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 11339   | 4282    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 11339   | 4436    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 10707   |         |         |         | MACT: Lime Manufacturing               |
| 49045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11339   | 10347   |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11339   | 4282    |         |         | MACT: Industrial Boiler/Process Heater |
| 49045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11339   | 4436    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 10790   | 3291    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM10  | -9   | 99.98 | 100 | 100 | -9  | 10796   | 4221    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10796   | 5029    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10790   | 3291    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM2_5 | -9   | 99.98 | 100 | 100 | -9  | 10796   | 4221    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10796   | 5029    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | SO2   | -9   | 99.04 | 100 | 100 | -9  | 10790   | 3291    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10796   | 4221    |         |         | MACT: Industrial Boiler/Process Heater |
| 49049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10796   | 5029    |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 1       | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 2       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 1       | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 2       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 1       | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 50009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 2       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 50      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 89      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 89      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 50      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 89      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 89      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 50      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 89      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 89      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 614     | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 614     | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 614     | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 4       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 4       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 4       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 4       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 4       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 4       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4       | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4       | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 4       | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 644     | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 81      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 81      | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 87      | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 644     | 1       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC      | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|----------|---------|---------|---------|---------|--|
| 50021  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 81    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 81    |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9 87    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 644   |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 81    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 81    |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 87    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 620   |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 620   |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 620   |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9 60    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9 60    |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9 60    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9 60    |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 60    |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 50025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 60    |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 138   |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 144   |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 138   |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 144   |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 138   |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 50027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 144   |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51001  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9 00006 |         | 1       |         |         | NOX SIP Call                           |
| 51001  | -9  | PM10  | -9   | 84.10 | 100 | 100 | -9 00023 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51001  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9 00023 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00023 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM10  | -9   | 70.06 | 100 | 100 | -9 00003 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9 00003 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM10  | -9   | 98.80 | 100 | 100 | -9 00003 |         | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9 00059 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM10  | -9   | 78.16 | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00003 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9 00003 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9 00003 |         | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00059 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | PM2_5 | -9   | 78.95 | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00003 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00003 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00003 |         | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9 00059 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51007  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9 00001 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51007  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00001 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00001 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00022 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51011  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9 00010 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51011  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00010 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00010 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM10  | -9   | 83.80 | 100 | 100 | -9 00110 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM10  | -9   | 83.80 | 100 | 100 | -9 00110 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM10  | -9   | 83.80 | 100 | 100 | -9 00110 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9 00110 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9 00110 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9 00110 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9 00110 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9 00110 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51015  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9 00110 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9 00003 |         | 2       |         |         | NOX SIP Call                           |
| 51019  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9 00003 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9 00003 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9 00003 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9 00003 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00003 |         | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00003 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51021  | -9  | PM10  | -9   | 58.00 | 100 | 100 | -9 00005 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51021  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00005 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51021  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00005 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 00024 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | PM10  | -9   | 81.16 | 100 | 100 | -9 00029 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 00024 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9 00029 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00024 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00029 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51027  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00098 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 00018 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 00018 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9 00018 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 00018 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 00018 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9 00018 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00018 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00018 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51029  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00018 |         | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9 00001 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9 00001 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM10  | -9   | 70.01 | 100 | 100 | -9 00001 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9 00041 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00001 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00001 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9 00001 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9 00041 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00001 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00001 |         | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00001 |         | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9 00041 |         | 1       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51035  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51035  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51035  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51037  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51037  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51037  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 1       |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 2       |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 107     |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 207     |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 28      |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 32      |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 33      |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 55      |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 56      |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00015   | 9       |         |         | NOX SIP Call                           |
| 51041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00081   | 2       |         |         | NOX SIP Call                           |
| 51041  | -9  | PM10  | -9   | 99.88 | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51041  | -9  | PM2.5 | -9   | 97.60 | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00047   | 2       |         |         | NOX SIP Call                           |
| 51047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00047   | 5       |         |         | NOX SIP Call                           |
| 51047  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00047   | 6       |         |         | NOX SIP Call                           |
| 51047  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 00008   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51047  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00008   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51047  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51059  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00018   | 7       |         |         | NOX SIP Call                           |
| 51059  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00056   | 14      |         |         | NOX SIP Call                           |
| 51065  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 1       |         |         | NOX SIP Call                           |
| 51065  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 2       |         |         | NOX SIP Call                           |
| 51065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51065  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51065  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9  | 00014   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM10  | -9   | 93.52 | 100 | 100 | -9  | 00014   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00014   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM2.5 | -9   | 88.00 | 100 | 100 | -9  | 00014   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00014   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00014   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00023   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51069  | -9  | PM10  | -9   | 89.98 | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51069  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00034   |         |         |         | MACT: Lime Manufacturing               |
| 51069  | -9  | PM2.5 | -9   | 70.00 | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51069  | -9  | PM2.5 | -9   | 28.00 | 100 | 100 | -9  | 00034   |         |         |         | MACT: Lime Manufacturing               |
| 51069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51069  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00034   |         |         |         | MACT: Lime Manufacturing               |
| 51071  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00004   | 1       |         |         | NOX SIP Call                           |
| 51071  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00001   |         |         |         | MACT: Lime Manufacturing               |
| 51071  | -9  | PM10  | -9   | 97.84 | 100 | 100 | -9  | 00004   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51071  | -9  | PM2.5 | -9   | 28.00 | 100 | 100 | -9  | 00001   |         |         |         | MACT: Lime Manufacturing               |
| 51071  | -9  | PM2.5 | -9   | 97.60 | 100 | 100 | -9  | 00004   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51071  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00001   |         |         |         | MACT: Lime Manufacturing               |
| 51071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00007   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00007   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | PM2.5 | -9   | 99.58 | 100 | 100 | -9  | 00007   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | PM2.5 | -9   | 99.40 | 100 | 100 | -9  | 00007   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00007   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00007   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 00002   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM10  | -9   | 98.20 | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 00042   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM10  | -9   | 71.20 | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM2.5 | -9   | 85.00 | 100 | 100 | -9  | 00002   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM2.5 | -9   | 98.80 | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 00042   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | PM2.5 | -9   | 46.00 | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51083  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00046   | 1       |         |         | NOX SIP Call                           |
| 51083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00046   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51083  | -9  | PM2.5 | -9   | 40.00 | 100 | 100 | -9  | 00046   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51083  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00046   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00042   | 6       |         |         | NOX SIP Call                           |
| 51085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00061   | 1       |         |         | NOX SIP Call                           |
| 51085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00061   | 2       |         |         | NOX SIP Call                           |
| 51085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00061   | 3       |         |         | NOX SIP Call                           |
| 51085  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00061   | 4       |         |         | NOX SIP Call                           |
| 51085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51085  | -9  | PM2_5 | -9   | 99.52 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00030   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00033   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00033   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00037   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00064   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00064   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 00065   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00066   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00030   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 00033   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 00033   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00037   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00064   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00064   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00065   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00066   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00030   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00033   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00033   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00037   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00037   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00064   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00064   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00065   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 00066   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51089  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00006   | 29      |         |         | NOX SIP Call                           |
| 51093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00006   | 3       |         |         | NOX SIP Call                           |
| 51093  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00006   | 4       |         |         | NOX SIP Call                           |
| 51093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM2_5 | -9   | 97.28 | 100 | 100 | -9  | 00006   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM2_5 | -9   | 96.15 | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM2_5 | -9   | 94.00 | 100 | 100 | -9  | 00006   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 17      |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51097  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 00012   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 51097  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00012   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 51097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 51099  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51099  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51099  | -9  | SO2   | -9   | 90.40 | 100 | 100 | -9  | 00012   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 2       |         |         | NOX SIP Call                           |
| 51101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 7       |         |         | NOX SIP Call                           |
| 51101  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 8       |         |         | NOX SIP Call                           |
| 51101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00004   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00023   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM2_5 | -9   | 92.89 | 100 | 100 | -9  | 00001   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00004   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00023   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51101  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00023   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00041   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | PM10  | -9   | 81.04 | 100 | 100 | -9  | 00043   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00041   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00043   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00041   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51109  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00043   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00051   | 1       |         |         | NOX SIP Call                           |
| 51117  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 00001   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00046   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00001   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00046   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51117  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00046   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51117  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | PM10  | -9   | 50.02 | 100 | 100 | -9  | 00002   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 00002   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00002   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00002   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51121  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 00002   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51135  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00029   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51135  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00029   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00029   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00020   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00020   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | SO2   | -9   | 3.96  | 100 | 100 | -9  | 00020   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51137  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00020   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00008   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00008   | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00022   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 00008   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00008   | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00022   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00008   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 28      |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 3.96  | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00018   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51141  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00022   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00017   | 23      |         |         | NOX SIP Call                           |
| 51143  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 00003   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00123   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00123   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00003   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00123   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00123   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 8       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00123   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00123   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51143  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00123   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51147  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 1       |         |         | NOX SIP Call                           |
| 51153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 2       |         |         | NOX SIP Call                           |
| 51153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 3       |         |         | NOX SIP Call                           |
| 51153  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00002   | 4       |         |         | NOX SIP Call                           |
| 51153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51153  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00001   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9  | 00038   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM10  | -9   | 88.60 | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00001   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 00038   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00001   | 12      |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 00038   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51155  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51159  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51159  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51159  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00008   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00089   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM10  | -9   | 70.00 | 100 | 100 | -9  | 00094   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM10  | -9   | 96.28 | 100 | 100 | -9  | 00173   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM10  | -9   | 79.18 | 100 | 100 | -9  | 00173   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00089   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00094   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00173   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00173   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00089   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00094   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00173   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51161  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00173   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM10  | -9   | 73.00 | 100 | 100 | -9  | 00001   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00022   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM10  | -9   | 78.40 | 100 | 100 | -9  | 00033   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00001   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00022   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 00033   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00022   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51163  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 00033   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51165  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00073   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51165  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00122   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 1       |         |         | NOX SIP Call                           |
| 51167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 2       |         |         | NOX SIP Call                           |
| 51167  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 3       |         |         | NOX SIP Call                           |
| 51167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51167  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51171  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00003   |         |         |         | MACT: Lime Manufacturing               |
| 51171  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51171  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 00003   |         |         |         | MACT: Lime Manufacturing               |
| 51171  | -9  | PM2_5 | -9   | 71.08 | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51171  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00003   |         |         |         | MACT: Lime Manufacturing               |
| 51171  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 00030   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 80.20 | 100 | 100 | -9  | 00035   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 80.20 | 100 | 100 | -9  | 00035   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 79.00 | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00067   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 89.20 | 100 | 100 | -9  | 00071   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00096   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00030   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00035   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00035   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 00067   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00071   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00096   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00030   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00035   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.07  | 100 | 100 | -9  | 00035   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00066   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00067   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00071   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51173  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00096   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00051   | 1       |         |         | NOX SIP Call                           |
| 51175  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00051   | 2       |         |         | NOX SIP Call                           |
| 51175  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 00051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | PM2_5 | -9   | 99.88 | 100 | 100 | -9  | 00051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | SO2   | -9   | 98.08 | 100 | 100 | -9  | 00051   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51175  | -9  | SO2   | -9   | 99.01 | 100 | 100 | -9  | 00051   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00001   | 36      |         |         | MACT: Industrial Boiler/Process Heater |
| 51183  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00116   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00116   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00116   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 00116   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00116   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 00116   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00116   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 00116   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51185  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00116   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | PM10  | -9   | 82.00 | 100 | 100 | -9  | 00158   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | PM10  | -9   | 88.00 | 100 | 100 | -9  | 00158   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00158   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00158   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00158   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51195  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00158   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 5       |         |         | NOX SIP Call                           |
| 51199  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00001   | 6       |         |         | NOX SIP Call                           |
| 51199  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00004   | 1       |         |         | NOX SIP Call                           |
| 51199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51199  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 6       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 1       |         |         | NOX SIP Call                           |
| 51510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 2       |         |         | NOX SIP Call                           |
| 51510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 3       |         |         | NOX SIP Call                           |
| 51510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 4       |         |         | NOX SIP Call                           |
| 51510  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00003   | 5       |         |         | NOX SIP Call                           |
| 51510  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51510  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00003   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00003   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51510  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51515  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51515  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51515  | -9  | SO2   | -9   | 4.15  | 100 | 100 | -9  | 00006   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 1       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 10      |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 11      |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 12      |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 13      |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 14      |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 2       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 3       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 4       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 5       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 6       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 8       |         |         | NOX SIP Call                           |
| 51550  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00161   | 1       |         |         | NOX SIP Call                           |
| 51550  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00026   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00026   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM10  | -9   | 99.64 | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00026   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00026   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00026   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51550  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00038   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51580  | -9  | PM10  | -9   | 42.11 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51580  | -9  | PM10  | -9   | 38.46 | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51580  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51580  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00032   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00032   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00032   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00032   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00032   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51590  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00032   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 81.10 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 83.20 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 83.20 | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 81.10 | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 92.20 | 100 | 100 | -9  | 00018   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 81.10 | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00058   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 91.78 | 100 | 100 | -9  | 00059   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 81.10 | 100 | 100 | -9  | 00061   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM10  | -9   | 81.10 | 100 | 100 | -9  | 00061   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 85.00 | 100 | 100 | -9  | 00018   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00058   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00059   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00061   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00061   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 00018   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00018   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00036   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00058   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00059   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00061   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51640  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00061   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51650  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00010   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51650  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00010   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51650  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51650  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51650  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 1       |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|---|
| 51650  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00026   | 11A     |         |         | NOX SIP Call                                |
| 51670  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00063   | 1       |         |         | NOX SIP Call                                |
| 51670  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00063   | 2       |         |         | NOX SIP Call                                |
| 51670  | -9  | PM10  | -9   | 99.70 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | PM10  | -9   | 39.95 | 100 | 100 | -9  | 00063   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 00063   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 00063   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51670  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 00063   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 00097   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 00097   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM10  | -9   | 99.40 | 100 | 100 | -9  | 00097   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 00097   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 00097   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 00097   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 00042   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00097   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00097   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51680  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00097   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00004   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00004   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM10  | -9   | 91.00 | 100 | 100 | -9  | 00050   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00004   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00004   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00050   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | SO2   | -9   | 3.88  | 100 | 100 | -9  | 00004   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 8       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51690  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00050   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51710  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 00009   |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 51730  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM10  | -9   | 97.00 | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00062   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM2_5 | -9   | 99.79 | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00062   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51730  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00062   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.42 | 100 | 100 | -9  | 00081   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9  | 00081   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.46 | 100 | 100 | -9  | 00081   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.44 | 100 | 100 | -9  | 00081   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM10  | -9   | 99.44 | 100 | 100 | -9  | 00081   | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00081   | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 5       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51740  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00081   | 6       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00308   | 1       |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00389   | 20      |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00389   | 21      |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00399   | 1       |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00399   | 2       |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00399   | 3       |         |         | NOX SIP Call                                |
| 51760  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 00399   | 4       |         |         | NOX SIP Call                                |
| 51760  | -9  | PM10  | -9   | 76.00 | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 58.00 | 100 | 100 | -9  | 00087   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 58.00 | 100 | 100 | -9  | 00087   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 58.00 | 100 | 100 | -9  | 00087   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00308   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00399   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 00399   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 99.94 | 100 | 100 | -9  | 00399   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00399   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00087   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00087   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00087   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 00308   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00399   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00399   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00399   | 3       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00399   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00012   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00087   | 1       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00087   | 2       |         |         | MACT: Industrial Boiler/Process Heater      |
| 51760  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00087   | 4       |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 51760  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00308   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51760  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 00399   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51760  | -9  | SO2   | -9   | 94.24 | 100 | 100 | -9  | 00399   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51760  | -9  | SO2   | -9   | 93.28 | 100 | 100 | -9  | 00399   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51760  | -9  | SO2   | -9   | 92.32 | 100 | 100 | -9  | 00399   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00083   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00083   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM10  | -9   | 85.00 | 100 | 100 | -9  | 00083   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM10  | -9   | 94.00 | 100 | 100 | -9  | 00088   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00083   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00083   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00083   | 7       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00088   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00083   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00083   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00083   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51770  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00088   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | PM10  | -9   | 84.99 | 100 | 100 | -9  | 00037   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | PM10  | -9   | 95.20 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00037   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | SO2   | -9   | 4.07  | 100 | 100 | -9  | 00037   | 5       |         |         | MACT: Industrial Boiler/Process Heater |
| 51800  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00042   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00013   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00013   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00013   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00013   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00013   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 00013   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51810  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00013   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00005   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00005   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM10  | -9   | 99.22 | 100 | 100 | -9  | 00009   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM10  | -9   | 99.22 | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM10  | -9   | 99.22 | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM2_5 | -9   | 99.50 | 100 | 100 | -9  | 00009   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM2_5 | -9   | 99.50 | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | PM2_5 | -9   | 99.50 | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 00005   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 2       |         |         | MACT: Industrial Boiler/Process Heater |
| 51820  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00009   | 3       |         |         | MACT: Industrial Boiler/Process Heater |
| 53009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0004    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53011  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 00005   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 53011  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 00005   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 53011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 18      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | PM10  | -9   | 97.67 | 100 | 100 | -9  | 00003   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | PM10  | -9   | 99.53 | 100 | 100 | -9  | 00003   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | PM2_5 | -9   | 97.30 | 100 | 100 | -9  | 00003   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 00003   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 20      |         |         | MACT: Industrial Boiler/Process Heater |
| 53015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 21      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 60.87 | 100 | 100 | -9  | 00001   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 99.62 | 100 | 100 | -9  | 00001   | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00006   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00053   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 00001   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 99.46 | 100 | 100 | -9  | 00001   | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 99.05 | 100 | 100 | -9  | 00002   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 99.05 | 100 | 100 | -9  | 00002   | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00006   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | PM2_5 | -9   | 99.05 | 100 | 100 | -9  | 00053   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00001   | 24      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 06      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00006   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00053   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53031  | -9  | PM10  | -9   | 96.40 | 100 | 100 | -9  | 00001   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 53031  | -9  | PM2_5 | -9   | 95.73 | 100 | 100 | -9  | 00001   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 53031  | -9  | SO2   | -9   | 52.00 | 100 | 100 | -9  | 00001   | 22      |         |         | MACT: Industrial Boiler/Process Heater |
| 53035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 21323   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53035  | -9  | PM2_5 | -9   | 39.99 | 100 | 100 | -9  | 21323   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 21323   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00004   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00021   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00054   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 00004   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 00021   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 00054   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00003   | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00021   | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53041  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00054   | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 08      |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 53045  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 53045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 53049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0004    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 53049  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0004    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 53049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 13      |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM10  | -9   | 97.39 | 100 | 100 | -9  | 0008    | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 11669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 11820   |         |         |         | MACT: Lime Manufacturing               |
| 53053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 12711   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0008    | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 11669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 11820   |         |         |         | MACT: Lime Manufacturing               |
| 53053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 12711   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 25      |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 11669   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53053  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 11820   |         |         |         | MACT: Lime Manufacturing               |
| 53053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 12711   | 4       |         |         | MACT: Industrial Boiler/Process Heater |
| 53057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53059  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0017    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53059  | -9  | PM2_5 | -9   | 97.00 | 100 | 100 | -9  | 0017    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53059  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0017    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0002    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 10663   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0002    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 10663   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53061  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 10663   | 1       |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0006    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0010    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0012    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0006    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0008    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM2_5 | -9   | 73.35 | 100 | 100 | -9  | 0008    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0010    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | PM2_5 | -9   | 92.89 | 100 | 100 | -9  | 0012    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0006    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53065  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0012    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53071  | -9  | PM10  | -9   | 60.87 | 100 | 100 | -9  | 0003    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53071  | -9  | PM2_5 | -9   | 55.00 | 100 | 100 | -9  | 0003    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 23      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM10  | -9   | 99.45 | 100 | 100 | -9  | 0004    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0023    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM2_5 | -9   | 64.46 | 100 | 100 | -9  | 0002    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0004    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0023    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0004    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 02      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0008    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0201    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM2_5 | -9   | 99.58 | 100 | 100 | -9  | 0008    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0008    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM2_5 | -9   | 58.26 | 100 | 100 | -9  | 0008    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | PM2_5 | -9   | 97.17 | 100 | 100 | -9  | 0201    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 03      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 07      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0008    | 08      |         |         | MACT: Industrial Boiler/Process Heater |
| 53075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0201    | 01      |         |         | MACT: Industrial Boiler/Process Heater |
| 53077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 04      |         |         | MACT: Industrial Boiler/Process Heater |
| 54003  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0006    | 010     |         |         | NOX SIP Call                           |
| 54003  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0006    | 011     |         |         | NOX SIP Call                           |
| 54003  | -9  | NOX   | -9   | 30.00 | 100 | 100 | -9  | 0006    | 012     |         |         | NOX SIP Call                           |
| 54007  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0100    | 004     |         |         | NOX SIP Call                           |
| 54009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 017     |         |         | NOX SIP Call                           |
| 54009  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 018     |         |         | NOX SIP Call                           |
| 54009  | -9  | PM10  | -9   | 38.71 | 100 | 100 | -9  | 0001    | 774     |         |         | MACT: Industrial Boiler/Process Heater |
| 54009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 774     |         |         | MACT: Industrial Boiler/Process Heater |
| 54011  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0019    | P05     |         |         | NOX SIP Call                           |
| 54019  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 006     |         |         | NOX SIP Call                           |
| 54019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 54019  | -9  | PM10  | -9   | 99.49 | 100 | 100 | -9  | 0034    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 54019  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0034    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54019  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001    | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 54019  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 0034    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0015    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0023    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0015    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0023    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0015    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0023    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | PM10  | -9   | 42.32 | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | PM2_5 | -9   | 42.16 | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54025  | -9  | SO2   | -9   | 4.04  | 100 | 100 | -9  | 0017    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 089     |         |         | NOX SIP Call                           |
| 54029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 092     |         |         | NOX SIP Call                           |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 54029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001    | 093     |         |         | NOX SIP Call                           |
| 54029  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0008    | 007     |         |         | NOX SIP Call                           |
| 54031  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54031  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54031  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54031  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 0003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54033  | -9  | PM10  | -9   | 84.08 | 100 | 100 | -9  | 0025    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54033  | -9  | PM2_5 | -9   | 90.57 | 100 | 100 | -9  | 0025    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54033  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 0025    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54037  | -9  | PM10  | -9   | 99.96 | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54037  | -9  | PM2_5 | -9   | 99.92 | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 0B6     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 0B7     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0003    | 0B8     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 040     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 050     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 060     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 071     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 081     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0007    | 091     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0047    | 009     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076    | 003     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076    | 004     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076    | 007     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076    | 015     |         |         | NOX SIP Call                           |
| 54039  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0076    | 016     |         |         | NOX SIP Call                           |
| 54039  | -9  | PM10  | -9   | 99.03 | 100 | 100 | -9  | 0002    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0002    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0003    | 0B6     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 071     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 081     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0007    | 091     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 99.11 | 100 | 100 | -9  | 0002    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0002    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0003    | 0B6     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 071     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 081     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0007    | 091     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 3.88  | 100 | 100 | -9  | 0001    | 451     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 013     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 015     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003    | 0B6     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 071     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 081     |         |         | MACT: Industrial Boiler/Process Heater |
| 54039  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0007    | 091     |         |         | MACT: Industrial Boiler/Process Heater |
| 54041  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009    | 008     |         |         | NOX SIP Call                           |
| 54047  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0022    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54047  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0022    | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 54047  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0022    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54047  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0022    | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 54047  | -9  | SO2   | -9   | 4.04  | 100 | 100 | -9  | 0022    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54047  | -9  | SO2   | -9   | 3.93  | 100 | 100 | -9  | 0022    | 012     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009    | 001     |         |         | NOX SIP Call                           |
| 54049  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009    | 002     |         |         | NOX SIP Call                           |
| 54049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0009    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0009    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54049  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0009    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 001     |         |         | NOX SIP Call                           |
| 54051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 002     |         |         | NOX SIP Call                           |
| 54051  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0002    | 003     |         |         | NOX SIP Call                           |
| 54051  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM10  | -9   | 99.48 | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM10  | -9   | 98.59 | 100 | 100 | -9  | 0002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM2_5 | -9   | 99.00 | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM2_5 | -9   | 97.60 | 100 | 100 | -9  | 0002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 54051  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0002    | 016     |         |         | MACT: Industrial Boiler/Process Heater |
| 54057  | -9  | PM10  | -9   | 91.49 | 100 | 100 | -9  | 0011    | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 54057  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0011    | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 54057  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0011    | 034     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | PM10  | -9   | 89.40 | 100 | 100 | -9  | 0035    | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | PM10  | -9   | 99.49 | 100 | 100 | -9  | 0095    | 0B1     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 0035    | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 0095    | 0B1     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | SO2   | -9   | 65.45 | 100 | 100 | -9  | 0035    | 111     |         |         | MACT: Industrial Boiler/Process Heater |
| 54067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0095    | 0B1     |         |         | MACT: Industrial Boiler/Process Heater |
| 54071  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing               |
| 54071  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing               |
| 54071  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 0001    |         |         |         | MACT: Lime Manufacturing               |
| 54073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003    | 0SA     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 54073  | -9  | PM10  | -9   | 99.84 | 100 | 100 | -9  | 0003      | 0WA     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | PM10  | -9   | 99.84 | 100 | 100 | -9  | 0003      | 0WB     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0003      | 0WD     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003      | 0SA     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0003      | 0WD     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 0SA     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 0WA     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 0WB     |         |         | MACT: Industrial Boiler/Process Heater |
| 54073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0003      | 0WD     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001      | 001     |         |         | NOX SIP Call                           |
| 54077  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001      | 002     |         |         | NOX SIP Call                           |
| 54077  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0001      | 003     |         |         | NOX SIP Call                           |
| 54077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0060      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0060      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 54077  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 0060      | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 54079  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0006      | 005     |         |         | NOX SIP Call                           |
| 54079  | -9  | PM10  | -9   | 98.00 | 100 | 100 | -9  | 0001      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 54079  | -9  | PM2_5 | -9   | 96.09 | 100 | 100 | -9  | 0001      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 54079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | 019     |         |         | MACT: Industrial Boiler/Process Heater |
| 54083  | -9  | PM10  | -9   | 72.60 | 100 | 100 | -9  | 0025      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54083  | -9  | PM2_5 | -9   | 70.00 | 100 | 100 | -9  | 0025      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54083  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 0025      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54091  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0013      | 006     |         |         | NOX SIP Call                           |
| 54097  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0009      | 012     |         |         | NOX SIP Call                           |
| 54097  | -9  | PM10  | -9   | 99.30 | 100 | 100 | -9  | 0029      | WFF     |         |         | MACT: Industrial Boiler/Process Heater |
| 54097  | -9  | PM2_5 | -9   | 99.53 | 100 | 100 | -9  | 0029      | WFF     |         |         | MACT: Industrial Boiler/Process Heater |
| 54097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0029      | WFF     |         |         | MACT: Industrial Boiler/Process Heater |
| 54099  | -9  | PM10  | -9   | 99.66 | 100 | 100 | -9  | 0010      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0010      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0010      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54101  | -9  | PM10  | -9   | 48.74 | 100 | 100 | -9  | 0012      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54101  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 0012      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54101  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 0012      | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 54103  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0006      | 003     |         |         | NOX SIP Call                           |
| 54103  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0006      | 004     |         |         | NOX SIP Call                           |
| 54103  | -9  | NOX   | -9   | 82.00 | 100 | 100 | -9  | 0006      | 005     |         |         | NOX SIP Call                           |
| 54103  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0033      | 003     |         |         | NOX SIP Call                           |
| 54103  | -9  | NOX   | -9   | 60.00 | 100 | 100 | -9  | 0033      | 004     |         |         | NOX SIP Call                           |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | P04     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | P05     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0001      | P06     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 0012      | 202     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0001      | P06     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 0012      | 202     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P02     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P04     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P05     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0001      | P06     |         |         | MACT: Industrial Boiler/Process Heater |
| 54107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 0012      | 202     |         |         | MACT: Industrial Boiler/Process Heater |
| 54109  | -9  | PM10  | -9   | 99.52 | 100 | 100 | -9  | 0002      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 54109  | -9  | PM2_5 | -9   | 98.80 | 100 | 100 | -9  | 0002      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 54109  | -9  | SO2   | -9   | 71.19 | 100 | 100 | -9  | 0002      | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 802009010 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 802009450 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 802033540 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 802036730 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 802036950 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 802037170 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 802009010 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 46.01 | 100 | 100 | -9  | 802009450 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 802033540 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 802036730 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 802036950 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 802037170 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 802009010 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 3.91  | 100 | 100 | -9  | 802009450 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 802033540 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 4.05  | 100 | 100 | -9  | 802036730 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 802036950 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55003  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 802037170 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603010870 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603011530 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603038260 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603038480 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603038480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 603038700 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 603010870 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 603011530 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 603038260 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 45.95 | 100 | 100 | -9  | 603038480 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 603038480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 603038700 | B22     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 603010870 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 603011530 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 603038260 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 603038480 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 603038480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55005  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 603038700 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 804012330 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 804012330 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 804012330 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405008450 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405010430 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405032100 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405032650 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405032650 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405032870 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 39.98 | 100 | 100 | -9  | 405032870 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 405032870 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 39.98 | 100 | 100 | -9  | 405032870 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405032870 | B28     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 405032870 | B29     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 405033970 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 405041560 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 405042110 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM10  | -9   | 39.97 | 100 | 100 | -9  | 405104810 | B31     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405008450 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405010430 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 405032100 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405032650 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405032650 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 405032870 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 405032870 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 405032870 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 405032870 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 405032870 | B28     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405032870 | B29     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 405033970 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 405041560 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 405042110 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | PM2_5 | -9   | 46.03 | 100 | 100 | -9  | 405104810 | B31     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405008450 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 405010430 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032100 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032650 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032650 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B28     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 405032870 | B29     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 405033970 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 405041560 |         |         |         | MACT: Lime Manufacturing               |
| 55009  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 405042110 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55009  | -9  | SO2   | -9   | 4.41  | 100 | 100 | -9  | 405104810 | B31     |         |         | MACT: Industrial Boiler/Process Heater |
| 55013  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 807010380 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55013  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 807010380 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55013  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 807010380 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 609037220 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 48.73 | 100 | 100 | -9  | 609042390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 609074070 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 609037220 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 609037660 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 609042390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 609074070 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 609037220 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 609037660 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 609037660 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 609037660 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 609042390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55017  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 609074070 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 610013800 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 610046690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM10  | -9   | 48.74 | 100 | 100 | -9  | 610046690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 610013800 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 610046690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 610046690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 610013800 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | SO2   | -9   | 4.05  | 100 | 100 | -9  | 610046690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55019  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 610046690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113014000 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113014000 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 113014550 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113014550 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113023570 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113023570 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 113023570 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 113288120 | P04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B21     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113008390 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113014000 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113014000 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 113014550 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 46.01 | 100 | 100 | -9  | 113014550 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 113023570 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 113023570 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 113023570 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 113288120 | P04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113008390 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113008390 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113008390 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113008390 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113014000 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113014000 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113014550 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113014550 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113023570 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113023570 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 113023570 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55025  | -9  | SO2   | -9   | 4.41  | 100 | 100 | -9  | 113288120 | P04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 114012030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 114012030 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 114012030 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 114012030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 114012030 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 114012030 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 114012030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 114012030 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55027  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 114012030 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 816009150 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 816036430 |         |         |         | MACT: Lime Manufacturing               |
| 55031  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 816037530 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 816009150 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 816036430 |         |         |         | MACT: Lime Manufacturing               |
| 55031  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 816037530 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 816009150 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55031  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 816036430 |         |         |         | MACT: Lime Manufacturing               |
| 55031  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 816037530 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 617013320 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 617013320 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 617013320 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 617013320 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 617013320 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55033  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 617013320 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 618027080 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 618027080 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM10  | -9   | 39.68 | 100 | 100 | -9  | 618063050 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 618027080 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 618027080 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | PM2_5 | -9   | 45.71 | 100 | 100 | -9  | 618063050 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 618027080 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 618027080 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55035  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 618063050 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 419023770 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 419023770 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 419023770 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 419023770 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 419023770 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55037  | -9  | SO2   | -9   | 4.09  | 100 | 100 | -9  | 419023770 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55039  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 420042480 |         |         |         | MACT: Lime Manufacturing               |
| 55039  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 420042480 |         |         |         | MACT: Lime Manufacturing               |
| 55039  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 420042480 |         |         |         | MACT: Lime Manufacturing               |
| 55041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 721007650 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55041  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 721007650 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 721007650 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55041  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 721007650 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55041  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 721007650 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55041  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 721007650 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 122005840 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 122005840 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | PM2_5 | -9   | 41.75 | 100 | 100 | -9  | 122005840 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 122005840 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 122005840 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55043  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 122005840 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55045  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 123012670 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55045  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 123012670 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55045  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 123012670 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55049  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 125012360 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55049  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 125012360 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55049  | -9  | SO2   | -9   | 3.80  | 100 | 100 | -9  | 125012360 | B04     |         |         | MACT: Industrial Boiler/Process Heater |
| 55051  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 826027510 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55051  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 826027510 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55051  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 826027510 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 627024970 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 627054560 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 627024970 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 627054560 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 627024970 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55053  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 627054560 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55055  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 128008540 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55055  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 128008540 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55055  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 128008540 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 729040620 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55057  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 729056350 | B01     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55057  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 729040620 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55057  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 729056350 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55057  | -9  | SO2   | -9   | 3.64  | 100 | 100 | -9  | 729040620 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55057  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 729056350 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55059  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 230012530 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55059  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 230012530 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55059  | -9  | SO2   | -9   | 3.96  | 100 | 100 | -9  | 230012530 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632019300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632028100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632028100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632028210 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632028210 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632054610 | B30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632084530 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 632019300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 632028100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 632028100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 632028210 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 632028210 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 632054610 | B30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 632084530 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 632019300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632028100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632028100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632028210 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632028210 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 632054610 | B30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55063  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632084530 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 734044520 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 734044630 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 734044630 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 734046390 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 734046720 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 734044520 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 734044630 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 734044630 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 734046390 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 734046720 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 734044520 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 734044630 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 734044630 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 734046390 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55067  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 734046720 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 735008010 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 735053880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 735057950 | B03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 735057950 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 735057950 | P02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 735008010 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 735053880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 735057950 | B03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 735057950 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | PM2_5 | -9   | 40.02 | 100 | 100 | -9  | 735057950 | P02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 735008010 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | SO2   | -9   | 4.14  | 100 | 100 | -9  | 735053880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 735057950 | B03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 735057950 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55069  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 735057950 | P02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436010300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 436034390 |         |         |         | MACT: Lime Manufacturing               |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436035160 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436035930 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436035930 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436035930 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.06 | 100 | 100 | -9  | 436036700 | C03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436040770 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 436041870 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 45.99 | 100 | 100 | -9  | 436010300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 436034390 |         |         |         | MACT: Lime Manufacturing               |
| 55071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 436035160 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 436035930 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 436035930 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 436035930 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 436036700 | C03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 436040770 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 436041870 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436010300 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 436034390 |         |         |         | MACT: Lime Manufacturing               |
| 55071  | -9  | SO2   | -9   | 4.05  | 100 | 100 | -9  | 436035160 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436035930 | B25     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436035930 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436035930 | B27     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436036700 | C03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 3.95  | 100 | 100 | -9  | 436040770 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55071  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 436041870 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737009570 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737009570 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737010450 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737013420 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 737079640 | P50     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737100320 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737110990 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 737110990 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 737009570 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 737009570 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 737010450 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 737013420 | B01     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 737079640 | P50     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 737100320 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 737110990 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 737110990 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 737009570 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 737009570 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 737010450 | P11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 737013420 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 737079640 | P50     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 3.91  | 100 | 100 | -9  | 737100320 | P01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 737110990 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55073  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 737110990 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438007460 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438039360 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438039360 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438039360 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 39.96 | 100 | 100 | -9  | 438039360 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 38.89 | 100 | 100 | -9  | 438039910 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438040020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438040020 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438043100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 438043100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM10  | -9   | 40.05 | 100 | 100 | -9  | 438043430 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 438007460 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 438039360 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 438039360 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 438039360 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 438039360 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 438040020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 438040020 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 438043100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 438043100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 438043430 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.04  | 100 | 100 | -9  | 438007460 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438039360 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438039360 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438039360 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438039360 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 438039910 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 438039910 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438040020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438040020 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438043100 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 3.88  | 100 | 100 | -9  | 438043100 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55075  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 438043430 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 241027050 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 241027050 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 241027050 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 241027050 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 241027050 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 241027050 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 241027050 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 241027050 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55079  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 241027050 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55081  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 632105430 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55081  | -9  | PM10  | -9   | 39.99 | 100 | 100 | -9  | 632105430 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 632105430 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55081  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 632105430 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55081  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 632105430 | B02     |         |         | MACT: Industrial Boiler/Process Heater |
| 55083  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 443012020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55083  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 443012020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55083  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 443012020 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 744008100 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 744106880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 744139660 | B07     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 744139660 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 744008100 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 744106880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 744139660 | B07     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 744139660 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 744008100 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 744106880 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 744139660 | B07     |         |         | MACT: Industrial Boiler/Process Heater |
| 55085  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 744139660 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445030960 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445030960 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445031180 | B07     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445031180 | B09     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445031180 | B11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 445031290 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 45.99 | 100 | 100 | -9  | 445038550 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445039210 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445039210 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445119070 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 445030960 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 445030960 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 445031180 | B07     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 445031180 | B09     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 445031180 | B11     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 445031290 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 45.99 | 100 | 100 | -9  | 445038550 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445039210 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445039210 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 445119070 | B10     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445030960 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445030960 | B22     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                                 |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|---|
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445031180 | B07     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445031180 | B09     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445031180 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445031290 | B23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 445038550 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 445039210 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 445039210 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55087  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 445119070 | B10     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55093  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 648015170 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55093  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 648015170 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55093  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 648015170 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55095  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 649052250 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55095  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 649052250 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55095  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 649052250 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 750008710 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 750036760 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 750036760 | B02     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM10  | -9   | 39.97 | 100 | 100 | -9  | 750055570 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 750055580 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 750008710 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 750036760 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 750036760 | B02     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 750055570 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 750055580 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 750008710 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 750036760 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 750036760 | B02     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 750055570 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55097  | -9  | SO2   | -9   | 3.87  | 100 | 100 | -9  | 750055580 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 851009390 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 851009940 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM10  | -9   | 39.99 | 100 | 100 | -9  | 851009940 | P30     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 851034800 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 851043710 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 851009390 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 851009940 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM2_5 | -9   | 45.99 | 100 | 100 | -9  | 851009940 | P30     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 851034800 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 851043710 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 851009390 | CONF1   |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 851009940 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 851009940 | P30     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 851034800 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55099  | -9  | SO2   | -9   | 3.95  | 100 | 100 | -9  | 851043710 | B01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 154002860 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 154002860 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 154002860 | B23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 154002860 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 154002860 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 154002860 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM2_5 | -9   | 46.01 | 100 | 100 | -9  | 154002860 | B23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | PM2_5 | -9   | 46.01 | 100 | 100 | -9  | 154002860 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 154002860 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 154002860 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 154002860 | B23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 154002860 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55105  | -9  | VOC   | -9   | 28.00 | 100 | 100 | -9  | 154002860 |         |         |         | MACT: Auto & Light Duty Truck Manufacturing |
| 55107  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 855027030 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55107  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 855027030 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55107  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 855027030 | B24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55111  | -9  | PM10  | -9   | 40.03 | 100 | 100 | -9  | 157003550 | P01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55111  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 157003550 | P01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55111  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 157003550 | P01     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858009240 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858009460 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 858017710 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B12     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P13     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P14     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 858102300 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 858009240 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 858009460 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 858017710 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B12     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P13     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P14     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P23     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 858100540 | P24     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 858102300 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 858009240 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 858009460 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 858017710 | B20     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 858100540 | B11     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 858100540 | B12     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 858100540 | B21     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 858100540 | B22     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 858100540 | P13     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 858100540 | P14     |         |         | MACT: Industrial Boiler/Process Heater      |
| 55113  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 858100540 | P23     |         |         | MACT: Industrial Boiler/Process Heater      |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55113  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 858100540 | P24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55113  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 858102300 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459039570 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459044300 | B12     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459044300 | B8      |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459044410 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459082140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 459086870 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 459039570 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 459044300 | B12     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 459044300 | B8      |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 459044410 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 459082140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 459086870 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 459039570 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 459044300 | B12     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 459044300 | B8      |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 459044410 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 459082140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55115  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 459086870 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 460029570 | B08     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 460061250 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 460061250 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 460029570 | B08     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 460061250 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 460061250 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 460029570 | B08     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | SO2   | -9   | 4.03  | 100 | 100 | -9  | 460061250 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55117  | -9  | SO2   | -9   | 4.04  | 100 | 100 | -9  | 460061250 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM10  | -9   | 40.01 | 100 | 100 | -9  | 861010370 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 861028520 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 861037980 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 861010370 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 861028520 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 861037980 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 861010370 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | SO2   | -9   | 4.06  | 100 | 100 | -9  | 861028520 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55119  | -9  | SO2   | -9   | 3.94  | 100 | 100 | -9  | 861037980 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55121  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 662006720 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55121  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 662006720 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55121  | -9  | SO2   | -9   | 3.98  | 100 | 100 | -9  | 662006720 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 764048780 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 764048780 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 764123360 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 764048780 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 764048780 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 764123360 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 764048780 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 764048780 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55125  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 764123360 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55127  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 265005400 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55127  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 265005400 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55127  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 265005400 | P30     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 866029890 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 866029890 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 866029890 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 866029890 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 866029890 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 866029890 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 866029890 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | SO2   | -9   | 3.99  | 100 | 100 | -9  | 866029890 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55129  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 866029890 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55133  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 268009500 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55133  | -9  | PM2_5 | -9   | 99.40 | 100 | 100 | -9  | 268009500 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55133  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 268009500 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 469034170 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 469080920 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 469034170 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 469080920 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 469034170 | B26     |         |         | MACT: Industrial Boiler/Process Heater |
| 55135  | -9  | SO2   | -9   | 4.44  | 100 | 100 | -9  | 469080920 | B01     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471034190 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 39.99 | 100 | 100 | -9  | 471034190 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471034190 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471037490 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471037490 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471038810 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471038810 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471040240 | B99     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471041670 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471062790 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 471062790 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471034190 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471034190 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471034190 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 471037490 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 41.74 | 100 | 100 | -9  | 471037490 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 471038810 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 471038810 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 471040240 | B99     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471041670 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471062790 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 471062790 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 471034190 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 471034190 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 471034190 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 471037490 | B20     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID   | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|-----------|---------|---------|---------|--|
| 55139  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 471037490 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 471038810 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 471038810 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 3.96  | 100 | 100 | -9  | 471040240 | B99     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 471041670 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 471062790 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55139  | -9  | SO2   | -9   | 3.97  | 100 | 100 | -9  | 471062790 | B22     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772009480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772009480 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772010140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772010140 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772010690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772010690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772010690 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772054030 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772054030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 772054030 | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 772009480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772009480 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772010140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772010140 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 772010690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 88.00 | 100 | 100 | -9  | 772010690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772054030 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772054030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | PM2_5 | -9   | 46.00 | 100 | 100 | -9  | 772054030 | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772009480 | B23     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772009480 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772010140 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772010140 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772010690 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772010690 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 772010690 | B24     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 772054030 | B20     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.01  | 100 | 100 | -9  | 772054030 | B21     |         |         | MACT: Industrial Boiler/Process Heater |
| 55141  | -9  | SO2   | -9   | 4.02  | 100 | 100 | -9  | 772054030 | P03     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000005    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000005    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000005    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000005    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000005    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000005    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56001  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000005    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000003    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56003  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000006    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000002    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56005  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 017     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000012    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56007  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000012    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000001    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000001    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56009  | -9  | SO2   | -9   | 59.58 | 100 | 100 | -9  | 000001    | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56011  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56011  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56011  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000003    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56015  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56015  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56015  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000001    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 000004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 000004    | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 000004    | 002     |         |         | MACT: Industrial Boiler/Process Heater |



| Region | SCC | PLLT  | PCEC | CE    | RE  | RP  | SIC | PLANTID | POINTID | STACKID | SEGMENT | Description                            |
|--------|-----|-------|------|-------|-----|-----|-----|---------|---------|---------|---------|--|
| 56023  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00004   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56029  | -9  | PM10  | -9   | 28.00 | 100 | 100 | -9  | 00014   |         |         |         | MACT: Lime Manufacturing               |
| 56029  | -9  | PM2_5 | -9   | 28.00 | 100 | 100 | -9  | 00014   |         |         |         | MACT: Lime Manufacturing               |
| 56029  | -9  | SO2   | -9   | 20.00 | 100 | 100 | -9  | 00014   |         |         |         | MACT: Lime Manufacturing               |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00002   | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00010   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00048   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM10  | -9   | 40.00 | 100 | 100 | -9  | 00048   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00002   | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00010   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00048   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | PM2_5 | -9   | 40.00 | 100 | 100 | -9  | 00048   | 006     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 004     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00002   | 069     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 99.52 | 100 | 100 | -9  | 00005   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00005   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 001     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 002     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00010   | 003     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00048   | 005     |         |         | MACT: Industrial Boiler/Process Heater |
| 56037  | -9  | SO2   | -9   | 4.00  | 100 | 100 | -9  | 00048   | 006     |         |         | MACT: Industrial Boiler/Process Heater |



## **B. AREA SOURCE CONTROL PACKET CONTENTS**



| Region | SCC        | PLLT  | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|-------|------|-------|-----|--------|--|
| 0      | 2104008000 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008001 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008010 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008030 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008050 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008051 | CO    | -9   | 37.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM10  | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM2_5 | -9   | 33.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | VOC   | -9   | 49.00 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2301040000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: SOCMF Fugitives  |
| 0      | 2306000000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Petroleum Refinery Fugitives   |
| 0      | 2401005000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: Autobody Refinishing   |
| 0      | 2401015000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Wood Product Surface Coating   |
| 0      | 2401020000 | VOC   | -9   | 30.00 | 100 | 100.00 | Title III MACT: Wood Furniture Surface Coating   |
| 0      | 2401025000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401030000 | VOC   | -9   | 78.00 | 80  | 100.00 | Title I RACT: Paper Surface Coating  |
| 0      | 2401040000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401045000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401050000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401055000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401060000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401065000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Electronic Coating   |
| 0      | 2401070000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Motor Vehicle Surface Coating  |
| 0      | 2401075000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Aerospace Surface Coating  |
| 0      | 2401080000 | VOC   | -9   | 24.00 | 100 | 100.00 | Title III MACT: Marine Vessel Surface Coating (Shipbuilding)   |
| 0      | 2401085000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401090000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2415100000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415105000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415110000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415120000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415125000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415130000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415135000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415140000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415145000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415199000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415200000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415300000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415305000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415310000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415320000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415325000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415330000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415335000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415340000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415345000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415355000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415360000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415365000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2420000370 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2420010370 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2501060100 | VOC   | -9   | 52.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 0      | 2501060101 | VOC   | -9   | 52.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 0      | 2501060102 | VOC   | -9   | 81.70 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Controlled   |
| 0      | 2630000000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010001 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010002 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010003 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010004 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010005 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010006 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010007 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010008 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010009 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010010 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010011 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630020000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 4013   | 2501060100 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 4013   | 2501060101 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2301040000 | VOC   | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2401001000 | VOC   | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6001   | 2401040000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2401045000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6001   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6001   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6001   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6001   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6001   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6001   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6003   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6003   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6005   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6005   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6013   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6013   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6013   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6013   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6013   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6015   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6015   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6017   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6017   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6019   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6019   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6021   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6021   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6023   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6023   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6025   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6025   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6027   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6027   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6029   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6029   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6031   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6031   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6035   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6035   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6037   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6037   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6039   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6039   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6041   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6041   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6041   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6041   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6041   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6041   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6041   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6043   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6043   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6045   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6045   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6047   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6047   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6049   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6049   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6051   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6051   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6053   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6053   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6055   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6055   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6055   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6055   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6055   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6055   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6057   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6057   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6059   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6059   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6061   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6061   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6063   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6063   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6065   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6065   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6067   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6067   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6069   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6069   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6073   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6073   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6075   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6075   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6075   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6075   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6075   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6075   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6077   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6077   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6079   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6079   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6081   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6081   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6081   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6081   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6081   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6081   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6081   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6083   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6083   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6085   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6085   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6085   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6085   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6085   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6085   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6085   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6091   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6091   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6093   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6093   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6095   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6095   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6095   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6095   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6095   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6095   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6095   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6095   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6097   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6097   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6097   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6097   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6097   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6097   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6097   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 9007   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9009   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9011   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9013   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9015   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9015   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9015   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10001  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10001  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 23031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 23031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 24033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24510  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24510  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24510  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 29047  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29047  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29071  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29071  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29095  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29095  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29099  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29099  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29165  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29165  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29183  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29183  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 33011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 33013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34007  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34007  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34019  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34019  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34023  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34023  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34029  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34029  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34029  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34035  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34035  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34035  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34035  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34037  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34037  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34037  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34037  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34039  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34039  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34039  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34039  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34041  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34041  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36005  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36005  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36047  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36047  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36047  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36047  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36059  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36059  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36059  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36059  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36061  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36061  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36061  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36061  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36071  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36071  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36071  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36071  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36081  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36081  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36081  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36081  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36085  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36085  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36085  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36085  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36087  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36087  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36087  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36087  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36103  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36103  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36103  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36103  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36119  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36119  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36119  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36119  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 39017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 42017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42017  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42017  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42019  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42019  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42029  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42029  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42045  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42045  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42045  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42045  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42051  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42051  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42091  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42091  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42091  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42091  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42101  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP    | Description  |
|--------|------------|------|------|-------|-----|-------|--|
| 53053  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53053  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53067  | 2501060100 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53067  | 2501060101 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55059  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55059  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55071  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55071  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55079  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55079  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55089  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55089  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55101  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55101  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55131  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55131  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55133  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55133  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT  | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|-------|------|-------|-----|--------|--|
| 0      | 2104008000 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008001 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008010 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008030 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008050 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008051 | CO    | -9   | 41.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM10  | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM2_5 | -9   | 37.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | VOC   | -9   | 54.30 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2301040000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: SOCMF Fugitives  |
| 0      | 2306000000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Petroleum Refinery Fugitives   |
| 0      | 2401005000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: Autobody Refinishing   |
| 0      | 2401015000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Wood Product Surface Coating   |
| 0      | 2401020000 | VOC   | -9   | 30.00 | 100 | 100.00 | Title III MACT: Wood Furniture Surface Coating   |
| 0      | 2401025000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401030000 | VOC   | -9   | 78.00 | 80  | 100.00 | Title I RACT: Paper Surface Coating  |
| 0      | 2401040000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401045000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401050000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401055000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401060000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401065000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Electronic Coating   |
| 0      | 2401070000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Motor Vehicle Surface Coating  |
| 0      | 2401075000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Aerospace Surface Coating  |
| 0      | 2401080000 | VOC   | -9   | 24.00 | 100 | 100.00 | Title III MACT: Marine Vessel Surface Coating (Shipbuilding)   |
| 0      | 2401085000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401090000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2415100000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415105000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415110000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415120000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415125000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415130000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415135000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415140000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415145000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415199000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415200000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415300000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415305000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415310000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415320000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415325000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415330000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415335000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415340000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415345000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415355000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415360000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415365000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2420003070 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2420010370 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2501060100 | VOC   | -9   | 59.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 0      | 2501060101 | VOC   | -9   | 59.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 0      | 2501060102 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Controlled   |
| 0      | 2630000000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010001 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010002 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010003 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010004 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010005 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010006 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010007 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010008 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010009 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010010 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010011 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630020000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 4013   | 2501060100 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 4013   | 2501060101 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2301040000 | VOC   | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2401001000 | VOC   | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6001   | 2401040000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2401045000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6001   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6001   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6001   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6001   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6001   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6001   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6001   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6001   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6001   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6003   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6003   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6005   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6005   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6013   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6013   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6013   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6013   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6013   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6013   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6013   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6013   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6015   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6015   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6017   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6017   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6019   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6019   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6021   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6021   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6023   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6023   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6025   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6025   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6027   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6027   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6029   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6029   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6031   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6031   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6035   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6035   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6037   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6037   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6039   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6039   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6041   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6041   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6041   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6041   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6041   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6041   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6041   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6041   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6041   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6041   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6043   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6043   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6045   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6045   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6047   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6047   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6049   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6049   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6051   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6051   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6053   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6053   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6055   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6055   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6055   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6055   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6055   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6055   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6055   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6055   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6055   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050085 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6057   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6057   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6059   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6059   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6061   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6061   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6063   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6063   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6065   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6065   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6067   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6067   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6069   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6069   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6073   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6073   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6075   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6075   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6075   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6075   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6075   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6075   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6075   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6075   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6075   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6077   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6077   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6079   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6079   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6081   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6081   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6081   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6081   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6081   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6081   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6081   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6081   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6081   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6081   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6083   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6083   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6085   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6085   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6085   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6085   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6085   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6085   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6085   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6091   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6091   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6093   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6093   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6095   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6095   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6095   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6095   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6095   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6095   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6095   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6097   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6097   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6097   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6097   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6097   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6097   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6097   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6097   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6097   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6097   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 9007   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9009   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9011   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9013   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9015   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9015   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9015   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10001  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10001  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 23031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 23031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 24033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24510  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24510  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24510  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 29047  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29047  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29071  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29071  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29095  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29095  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29099  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29099  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29165  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29165  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29183  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29183  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 33011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 33013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34007  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34007  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34019  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34019  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34023  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34023  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34029  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34029  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34029  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34035  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34035  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34035  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34035  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34037  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34037  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34037  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34037  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34039  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34039  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34039  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34039  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34041  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34041  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36005  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36005  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36047  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36047  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36047  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36047  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36059  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36059  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36059  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36059  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36061  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36061  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36061  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36061  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36071  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36071  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36071  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36071  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36081  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36081  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36081  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36081  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36085  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36085  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36085  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36085  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36087  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36087  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36087  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36087  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36103  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36103  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36103  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36103  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36119  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36119  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36119  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36119  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 39007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 39017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 42017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42017  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42017  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42019  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42019  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42029  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42029  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42045  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42045  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42045  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42045  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42051  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42051  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42091  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42091  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42091  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42091  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42101  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP    | Description  |
|--------|------------|------|------|-------|-----|-------|--|
| 53053  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53053  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53067  | 2501060100 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53067  | 2501060101 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55059  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55059  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55071  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55071  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55079  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55079  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55089  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55089  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55101  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55101  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55131  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55131  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55133  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55133  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT  | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|-------|------|-------|-----|--------|--|
| 0      | 2104008000 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008000 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Total: Woodstoves and Fireplaces  |
| 0      | 2104008001 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008001 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Fireplaces: General   |
| 0      | 2104008010 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008010 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Woodstoves: General   |
| 0      | 2104008030 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008030 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Catalytic Woodstoves: General   |
| 0      | 2104008050 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008050 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: EPA certified   |
| 0      | 2104008051 | CO    | -9   | 48.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM10  | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | PM2_5 | -9   | 44.10 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2104008051 | VOC   | -9   | 63.20 | 100 | 100.00 | Residential; Wood; Non-catalytic Woodstoves: Non-EPA certified   |
| 0      | 2301040000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: SOCMF Fugitives  |
| 0      | 2306000000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Petroleum Refinery Fugitives   |
| 0      | 2401005000 | VOC   | -9   | 37.00 | 100 | 100.00 | Title III MACT: Autobody Refinishing   |
| 0      | 2401015000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Wood Product Surface Coating   |
| 0      | 2401020000 | VOC   | -9   | 30.00 | 100 | 100.00 | Title III MACT: Wood Furniture Surface Coating   |
| 0      | 2401025000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401030000 | VOC   | -9   | 78.00 | 80  | 100.00 | Title I RACT: Paper Surface Coating  |
| 0      | 2401040000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401045000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401050000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Product Surface Coating  |
| 0      | 2401055000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401060000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Metal Furniture & Appliances Surface Coating   |
| 0      | 2401065000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Electronic Coating   |
| 0      | 2401070000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Motor Vehicle Surface Coating  |
| 0      | 2401075000 | VOC   | -9   | 60.00 | 100 | 100.00 | Title III MACT: Aerospace Surface Coating  |
| 0      | 2401080000 | VOC   | -9   | 24.00 | 100 | 100.00 | Title III MACT: Marine Vessel Surface Coating (Shipbuilding)   |
| 0      | 2401085000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2401090000 | VOC   | -9   | 36.00 | 100 | 100.00 | Title III MACT: Machinery, Railroad Surface Coating  |
| 0      | 2415100000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415105000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415110000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415120000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415125000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415130000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415135000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415140000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415145000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415199000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415200000 | VOC   | -9   | 31.00 | 100 | 100.00 | Title III MACT: Open Top & Conveyorized Degreasing   |
| 0      | 2415300000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415305000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415310000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415320000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415325000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415330000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415335000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415340000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415345000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415355000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415360000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2415365000 | VOC   | -9   | 43.00 | 100 | 100.00 | Title III MACT: Halogenated Solvent Cleaners (Cold Cleaning)   |
| 0      | 2420000370 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2420010370 | VOC   | -9   | 44.00 | 80  | 100.00 | Title I RACT: Petroleum Dry Cleaning   |
| 0      | 2501060100 | VOC   | -9   | 70.70 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 0      | 2501060101 | VOC   | -9   | 70.70 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 0      | 2501060102 | VOC   | -9   | 85.30 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Controlled   |
| 0      | 2630000000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010001 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010002 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010003 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010004 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010005 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010006 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010007 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010008 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010009 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010010 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630010011 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 0      | 2630020000 | VOC   | -9   | 80.00 | 100 | 100.00 | Title III MACT: POTWs  |
| 4013   | 2501060100 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 4013   | 2501060101 | VOC   | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2301040000 | VOC   | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2401001000 | VOC   | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6001   | 2401040000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2401045000 | VOC   | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6001   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6001   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6001   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6001   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6001   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6001   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6001   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6001   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6001   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6001   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6003   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6003   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6005   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6005   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6013   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6013   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6013   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strnds for Metal Parts Coating  |
| 6013   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6013   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6013   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6013   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6013   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6013   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6015   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6015   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6017   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6017   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6019   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6019   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6021   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6021   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6023   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6023   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6025   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6025   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6027   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6027   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6029   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6029   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6031   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6031   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6035   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6035   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6037   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6037   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6039   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6039   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6041   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6041   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6041   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6041   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6041   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6041   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6041   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6041   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6041   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6041   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6041   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6043   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6043   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6045   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6045   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6047   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6047   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6049   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6049   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6051   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6051   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6053   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6053   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6055   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6055   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6055   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6055   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6055   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6055   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6055   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6055   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6055   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6055   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6057   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6057   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6059   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6059   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6061   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6061   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6063   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6063   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6065   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6065   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6067   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6067   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6069   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6069   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6073   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6073   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6075   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6075   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6075   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6075   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6075   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6075   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6075   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6075   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6075   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6075   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6077   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6077   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6079   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6079   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6081   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6081   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6081   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6081   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6081   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6081   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6081   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6081   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6081   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6081   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6081   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6083   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6083   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6085   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6085   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6085   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6085   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Stnds for Metal Parts Coating   |
| 6085   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6085   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6085   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6085   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050070 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050100 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050165 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050185 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 6085   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6085   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6091   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6091   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6093   | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6093   | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6095   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6095   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6095   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6095   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6095   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6095   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6095   | 2501060100 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6095   | 2501060101 | VOC  | -9   | 95.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6095   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6095   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050195 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050220 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050235 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050240 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050250 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050260 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050265 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050270 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050275 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050285 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050295 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050310 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050320 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050345 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050350 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050370 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050380 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050385 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050405 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2510050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050010 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050020 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050040 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6095   | 2520050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2301040000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2401001000 | VOC  | -9   | 12.00 | 100 | 100.00 | Bay Area SIP: Improved Architectural Coatings Rule   |
| 6097   | 2401040000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401045000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2401050000 | VOC  | -9   | 10.00 | 100 | 100.00 | Bay Area SIP: Metal Container, Closure, and Coil Coating Limits  |
| 6097   | 2415300000 | VOC  | -9   | 55.00 | 100 | 100.00 | Bay Area SIP: Aqueous Solvents in Cold Cleaners  |
| 6097   | 2415310000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2415315000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2415320000 | VOC  | -9   | 60.00 | 100 | 100.00 | Bay Area SIP: Surface Prep and Cleanup Strds for Metal Parts Coating   |
| 6097   | 2425000000 | VOC  | -9   | 40.00 | 100 | 30.00  | Bay Area SIP: Low VOC Solvent Graphic Arts Operations  |
| 6097   | 2501050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050090 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050120 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050150 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050180 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501050900 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2501060000 | VOC  | -9   | 50.00 | 100 | 70.00  | Bay Area SIP: Reductions from Gasoline Dispensing Facilities   |
| 6097   | 2501060100 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 6097   | 2501060101 | VOC  | -9   | 90.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 6097   | 2510000000 | VOC  | -9   | 65.00 | 100 | 5.00   | Bay Area SIP: Improved Storage of Organic Liquids Rule   |
| 6097   | 2510050000 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050030 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050060 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |
| 6097   | 2510050065 | VOC  | -9   | 80.00 | 100 | 12.00  | Bay Area SIP: Fugitive Emissions, Refinery and Chemical P  |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 9007   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9007   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9007   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9007   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9007   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9007   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9009   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9009   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9009   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9009   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9009   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9009   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9011   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9011   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9011   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9011   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9011   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9011   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9013   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9013   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9013   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9013   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9013   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9013   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 9015   | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 9015   | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 9015   | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 9015   | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 9015   | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 9015   | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10001  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10001  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10001  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10001  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10001  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 10003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 10003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 10003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 10003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 10003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 10003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 10003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 23031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 23031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24009  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24009  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 24033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 24510  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 24510  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 24510  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 24510  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 24510  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 25015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 25015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 25015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 25117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 25117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 29047  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29047  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29071  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29071  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29095  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29095  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29099  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29099  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29165  | 2415300000 | VOC  | -9   | 30.00 | 100 | 100.00 | Kansas City: Control of Emissions from Solvent Cleanup Operations  |
| 29165  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | Kansas City: Control of Petroleum Liquid Storage, Loading and Transfer   |
| 29183  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29183  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29189  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2501000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 29510  | 2510000000 | VOC  | -9   | 90.00 | 100 | 100.00 | St. Louis SIP: Control of Emissions from VOC Liquid Storage  |
| 33011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 33013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 33017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 33017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 73.50  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34001  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34001  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34003  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34003  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34003  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34003  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34003  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34003  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34003  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34005  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34005  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34007  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34007  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34007  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34007  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34007  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34009  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34009  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34011  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34011  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34011  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34011  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34011  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34011  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34011  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34013  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34013  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34013  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34013  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34013  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34013  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34013  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34015  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34015  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34015  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34015  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34015  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34015  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34015  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34015  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34019  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34019  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34019  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34019  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34019  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34019  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34019  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34021  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34021  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34021  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34021  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34021  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34021  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34021  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34023  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34023  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34023  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34023  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34023  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34023  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34023  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34025  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34025  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34025  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34025  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34025  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34025  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34025  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34027  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34027  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34027  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34027  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34027  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34027  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34027  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 34029  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34029  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34029  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34031  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34031  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34031  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34031  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34031  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34031  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34031  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34033  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34033  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34033  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34033  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34033  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34033  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34033  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34035  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34035  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34035  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34035  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34035  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34035  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34035  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34037  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34037  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34037  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34037  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34037  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34037  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34037  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34039  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 34039  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 34039  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 34039  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 34039  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 34039  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34039  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 34041  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 34041  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36005  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36005  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36005  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36005  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36005  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36005  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36005  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36005  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36047  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36047  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36047  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36047  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36047  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36047  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36047  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36059  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36059  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36059  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36059  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36059  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36059  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36059  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36061  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36061  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36061  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36061  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36061  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36061  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36061  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36071  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36071  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36071  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36071  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36071  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36071  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36071  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36081  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36081  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36081  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36081  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36081  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36081  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36081  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36085  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36085  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36085  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36085  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36085  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |



| Region | SCC        | PLTT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 36085  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36085  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36087  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36087  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36087  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36087  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36087  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36087  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36087  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36103  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36103  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36103  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36103  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36103  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36103  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36103  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36119  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401070000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401075000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401080000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401085000 | VOC  | -9   | 56.00 | 100 | 100.00 | OTC: MER   |
| 36119  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 36119  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 36119  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 36119  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 36119  | 2501060100 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 36119  | 2501060101 | VOC  | -9   | 90.00 | 100 | 100.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 36007  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39007  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 39017  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 39017  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP     | Description  |
|--------|------------|------|------|-------|-----|--------|--|
| 42017  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42017  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42017  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42017  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42017  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42017  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42019  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42019  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42029  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42029  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42029  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42029  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42029  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42029  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42045  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42045  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42045  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42045  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42045  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42045  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42051  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42051  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42091  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42091  | 2415000000 | VOC  | -9   | 66.00 | 100 | 100.00 | OTC: Solvent Cleaning  |
| 42091  | 2460000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2465000000 | VOC  | -9   | 19.00 | 100 | 100.00 | OTC: Consumer Products   |
| 42091  | 2501000120 | VOC  | -9   | 18.00 | 100 | 100.00 | OTC: Portable Gasoline Containers  |
| 42091  | 2501060100 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 42091  | 2501060101 | VOC  | -9   | 90.00 | 100 | 91.30  | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 42101  | 2401001000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401090000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401100000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |
| 42101  | 2401990000 | VOC  | -9   | 23.00 | 100 | 100.00 | OTC: AIM   |



[illegible]



| Region | SCC        | PLLT | PCEC | CE    | RE  | RP    | Description  |
|--------|------------|------|------|-------|-----|-------|--|
| 53053  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53053  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 46.00 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 53067  | 2501060100 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 53067  | 2501060101 | VOC  | -9   | 95.00 | 100 | 18.80 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55059  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55059  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55061  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55061  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55071  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55071  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55079  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55079  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55089  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55089  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55101  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55101  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55117  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55117  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55131  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55131  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |
| 55133  | 2501060100 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Total                          |
| 55133  | 2501060101 | VOC  | -9   | 95.00 | 100 | 91.30 | Onboard Vapor Recovery Systems & Stage II for Gasoline Service Stations; Stage 2: Displacement Loss/Uncontrolled |