

Appendix C.1

Point Source Inventory Documentation

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POINT SOURCE INVENTORY

1.0 INTRODUCTION AND SCOPE

The point source inventory consists of emissions from individual facilities. Primarily, these are industrial or commercial facilities that must have permits issued by the North Carolina Division of Air Quality (NCDAQ).

Although NCDAQ inventory all the criteria pollutants and a large number of toxic pollutants, only the nitrogen oxides (NO_x) and volatile organic compounds (VOCs) are reported here since they are precursor pollutants for ozone formation. The emissions in this report were projected to the years 2005 (the attainment year), 2008, 2011, 2014, and 2017.

2.0 OVERALL METHODOLOGY

All large permitted sources are required to report emissions annually and every five years in the case of smaller sources to the NCDAQ. Additionally, the U.S. Environmental Protection Agency (USEPA) requires the NCDAQ to submit annually this data for large stationary point sources to them. The latest year available for the point source inventory submitted to the USEPA is 2003. This point source emissions data was used to develop this report. These data were then projected to 2005, the year of attainment, and then to future years 2008, 2011, 2014, and 2017. The emissions data upon which this report is based were pulled from files maintained by the NCDAQ.

2.1 SOURCE IDENTIFICATION

All facilities required to have permits to operate sources of air pollution are known and are required to submit emission inventories. Two sources that submitted inventories, but were omitted from this report because they are projected to emit less than 0.001 tons per day of NO_x or VOCs were Long Trailer Company in Edgecombe County and Bailey Feed Mill, Inc. in Nash County.

2.2 EMISSION ESTIMATION APPROACH

The emission inventory information reported to NCDAQ was transferred to a state developed emissions inventory program that helps ensure required data elements are not omitted. It also performs some calculations, thereby minimizing the occurrence of errors. Depending on the particular process and facility, emissions may be calculated by various means. In many cases, emissions are estimated using emission factors published in the USEPA's AP-42, Compilation of Air Pollutant Emission Factors. In a relatively few cases, locally produced emission factors may be used. Sometimes, a mass balance calculation can be employed. In some cases, there is direct continuous monitoring of emissions that are reported.

Emissions reported in the NEI and maintained by NCDAQ are annual emissions. There is also data for operating hours per day and per year, days per week, and the percent of emissions occurring in the summer quarter. The operating data was used to estimate the average summer day emissions.

2.3 EMISSION PROJECTION

The most recently submitted emissions data was used as the baseline for the projected emissions in this report. The emissions inventory was projected to future years by utilizing the USEPA's Economic Growth Analysis System version 5 (E-GAS 5.0) software. There are two major data

sources that are used as growth indicators in E-GAS 5.0: the Department of Energy (DOE) *Annual Energy Outlook* and version 5.5 of Regional Economic Models, Inc. (REMI) state-level economic models. In general, DOE data are used as growth indicators for fuel combustion/production categories, while REMI data are used for all other source categories.

2.4 FUTURE EMISSION REDUCTIONS

Emissions of NO_x will be reduced in the Rocky Mount area due to the North Carolina Nitrogen Oxide Rules (15A NCAC 02D .1417), which includes fossil fuel-fired stationary boilers, combustion turbines, or combined cycle systems serving a generator with a nameplate capacity greater than 25 megawatts electrical and selling any amount of electricity or having a maximum design heat input greater than 250 million British Thermal Units per hour. The only affected source in the Rocky Mount nonattainment area is Cogentrix of Rocky Mount in Edgecombe County. Emissions from this facility were set at their regulatory limits for the future years. Sources in this category will also comply with the requirements of this rule using the NO_x budget trading program (15A NCAC 02D .1419). If this source so chooses to participate in trading, future emissions could differ from those in this report (either higher or lower). Since the maintenance demonstration shows a sizable safety margin in 2017, if Cogentrix of Rocky Mount decided to buy NO_x credits, it should not affect the maintenance of the ozone standard. Additionally, the Rocky Mount area will benefit from NO_x reductions required at large electrical generation facilities nearby but not in the nonattainment area.

The Maximum Achievable Control Technology (MACT) regulations are intended to reduce hazardous air pollutants (HAPs), some of which are VOCs. In some cases, reduction of HAPs that are VOCs is accomplished by switching to VOCs that are not considered HAPs, resulting in no reductions of VOCs. In other cases, compliance with a MACT regulation can be expected to reduce VOCs.

There are two facilities with applicable MACT requirements in the Rocky Mount area, both located in Edgecombe County. Cogentrix of Rocky Mount is subject to subpart DDDDD and HC Composites LLC is subject to subpart VVVV.

Cogentrix of Rocky Mount operates an industrial external combustion boiler. The applicable MACT is Subpart DDDDD, compliance date September 2007, will primarily reduce emissions of hydrogen chloride and total selected metals. Therefore little NO_x or VOC reduction is expected from this MACT and no consideration of its effects were made in predicting future emissions based on this MACT for this report.

HC Composites LLC manufactures boats. The applicable MACT standard is Subpart VVVV, compliance date August 2004. According to the USEPA fact sheet for this regulation, the primary emission reductions are expected from styrene, methyl methacrylate, methylene chloride, toluene, xylene, and other air toxics from fiberglass and aluminum boat manufacturing facilities. The final standards are based on equipment and work practice requirements, and limitations on the amount of air toxics in the materials used. It is not possible to quantify a reduction in VOCs due to this MACT, therefore no reductions were applied to these emissions.

It is likely there will be some additional VOC reductions due to new MACT rules in the Rocky Mount area, although the MACT regulations do not always make a clear statement of how much VOC reductions will result from the HAPs reductions. It is not possible to determine the expected emission reductions until an affected source considers possible control options.

3.0 QUALITY ASSURANCE

The 2003 emission inventory has undergone a number of quality assurance checks so that it meets the standards for the NEI. The state emission inventory database program helps ensure that important data elements are present. Where the program performs calculations, it helps avoid math errors. In addition, since the State began collecting annual fees for emissions from Title V sources, both the State and the sources are careful that the tons-per-year emissions reported are accurate.

4.0 TOTAL POINT SOURCES EMISSIONS

In the following sections the emissions for the Rocky Mount nonattainment area are totaled, as well as, the estimated facility emissions for each county in the nonattainment area are identified for the attainment year (2005) and the future maintenance years (2008, 2011, 2014 and 2017).

4.1 ROCKY MOUNT MAINTENANCE AREA SUMMARY

Table 4.1-1 Rocky Mount Maintenance Area NO_x Emissions (tons/day)

County	2005	2008	2011	2014	2017
Edgecombe	2.95	2.68	2.70	2.73	2.76
Nash	0.60	0.60	0.63	0.69	0.72
TOTAL	3.55	3.28	3.33	3.42	3.48

Table 4.1-2 Rocky Mount Maintenance Area VOC Emissions (tons/day)

County	2005	2008	2011	2014	2017
Edgecombe	3.86	4.35	4.74	5.20	5.65
Nash	1.35	1.45	1.56	1.65	1.78
TOTAL	5.21	5.80	6.30	6.85	7.43

4.2 SUMMARY OF EMISSIONS FOR 2005

Table 4.2-1 Summary Of 2005 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NO _x (tons / day)
AIR SYSTEM COMPONENTS	3433	0.01	0.00
BARNHILL CONTRACTING COMPANY	2951	0.02	0.03
CAROLINA TELEPHONE AND TELEGRAPH SPRINT	4813	0.00	0.09
CITY OF ROCKY MOUNT – AT AMACO FIBERS	4911	0.00	0.04
CITY OF ROCKY MOUNT, TAR RIVER WWTP	4952	0.00	0.02
CITY OF WILSON – PINETOPS GENSET	4911	0.00	0.02
COGENTRIX OF ROCKY MOUNT	4911	0.01	2.60
GENERAL FOAM PLASTICS, INC.	3944	0.00	0.02
GLENOIT MILLS, INC.	2273	0.00	0.03
HC COMPOSITES, LLC	3732	0.17	0.00
HICKORY SPRINGS MANUFACTURING COMPANY	3086	0.01	0.00
LONG AGRIBUSINESS, LLC	3523	0.02	0.00
NC NATURAL GAS - BATTLEBORO	2511	0.00	0.02
NEVARMAR COMPANY, LLC	2499	0.10	0.01

Table 4.2-1 Summary Of 2005 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
NOMACO INC – TARBORO	3086	3.42	0.00
PRETTY GOOD SAND COMPANY, INC.	1442	0.00	0.02
SARA LEE BAKERY	2053	0.09	0.05
TRINITY INDUSTRIES	3443	0.01	0.00
Total County Emissions		3.86	2.95

Table 4.2-2 Summary Of 2005 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
AMERICAN ROCKWOOL INCORPORATED	3296	0.00	0.04
BEFCO, INC.	3523	0.03	0.00
BELT CONCEPTS OF AMERICA, INCORPORATED	3052	0.00	0.01
BRIGADEIR HOMES OF NORTH CAROLINA	2451	0.01	0.00
CAROLINA STEEL CORPORATION	3441	0.01	0.00
CAROLINA’S CHOICE BY WILLIAMS, INC.	2521	0.03	0.00
CITY OF ROCKY MOUNT – AT ILCO UNICAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – MCLANE COMPANY	4911	0.00	0.01
CITY OF ROCKY MOUNT – OWENS BROCKWAY	4911	0.00	0.01
CONSOLIDATED DIESEL COMPANY	3519	0.23	0.42
CUSTOM BOAT WORKS, INC.	3732	0.01	0.00
EAST COAST PLYWOOD COMPANY	2435	0.01	0.00
EATON AEROQUIP INCORPORATED	3052	0.26	0.00
FAWN INDUSTRIES INC. – MIDDLESEX PLT.	3089	0.31	0.00
HONEYWELL INTERNATIONAL, INC.	3728	0.04	0.00
INTERSTATE BRANDS – MERITA	2051	0.39	0.01
KABA ILCO CORPORATION	3356	0.00	0.00
NASH HOSPITALS, INC.	8062	0.00	0.02
PERDUE FARMS NASHVILLE - FEED MILL	2048	0.00	0.03
STRICKLAND INDUSTRIES	3479	0.02	0.00
SUNSET WATER PLANT	4911	0.00	0.00
TAR RIVER WATER PLANT	4911	0.00	0.01
TIETEX CREATIONS IND – SHEFFIELD PLANT	2262	0.00	0.02
Total County Emissions		1.35	0.60

4.3 SUMMARY OF EMISSIONS FOR 2008

Table 4.3-1 Summary Of 2008 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
AIR SYSTEM COMPONENTS	3433	0.01	0.00
BARNHILL CONTRACTING COMPANY	2951	0.02	0.04
CAROLINA TELEPHONE AND TELEGRAPH SPRINT	4813	0.00	0.11
CITY OF ROCKY MOUNT – AT AMACO FIBERS	4911	0.00	0.04
CITY OF ROCKY MOUNT, TAR RIVER WWTP	4952	0.00	0.02
CITY OF WILSON – PINETOPS GENSET	4911	0.00	0.02
COGENTRIX OF ROCKY MOUNT	4911	0.02	2.29
GENERAL FOAM PLASTICS, INC.	3944	0.00	0.03
GLENOIT MILLS, INC.	2273	0.00	0.03
HC COMPOSITES, LLC	3732	0.17	0.00
HICKORY SPRINGS MANUFACTURING COMPANY	3086	0.01	0.00
LONG AGRIBUSINESS, LLC	3523	0.03	0.00
NC NATURAL GAS - BATTLEBORO	2511	0.01	0.02
NEVARMAR COMPANY, LLC	2499	0.10	0.01
NOMACO INC – TARBORO	3086	3.87	0.00
PRETTY GOOD SAND COMPANY, INC.	1442	0.00	0.02
SARA LEE BAKERY	2053	0.10	0.05
TRINITY INDUSTRIES	3443	0.01	0.00
Total County Emissions		4.35	2.68

Table 4.3-2 Summary Of 2008 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
BEFCO, INC.	3523	0.03	0.00
BELT CONCEPTS OF AMERICA, INCORPORATED	3052	0.00	0.01
BRIGADEIR HOMES OF NORTH CAROLINA	2451	0.01	0.00
CAROLINA STEEL CORPORATION	3441	0.01	0.00
CAROLINA'S CHOICE BY WILLIAMS, INC.	2521	0.03	0.00
CITY OF ROCKY MOUNT – AT ILCO UNICAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – MCLANE COMPANY	4911	0.00	0.01
CITY OF ROCKY MOUNT – OWENS BROCKWAY	4911	0.00	0.01
CONSOLIDATED DIESEL COMPANY	3519	0.24	0.45
CUSTOM BOAT WORKS, INC.	3732	0.01	0.00
EAST COAST PLYWOOD COMPANY	2435	0.01	0.00

Table 4.3-2 Summary Of 2008 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
EATON AEROQUIP INCORPORATED	3052	0.29	0.00
FAWN INDUSTRIES INC. – MIDDLESEX PLT.	3089	0.35	0.00
HONEYWELL INTERNATIONAL, INC.	3728	0.04	0.00
INTERSTATE BRANDS – MERITA	2051	0.40	0.02
KABA ILCO CORPORATION	3356	0.00	0.00
NASH HOSPITALS, INC.	8062	0.00	0.02
PERDUE FARMS NASHVILLE - FEED MILL	2048	0.00	0.03
STRICKLAND INDUSTRIES	3479	0.03	0.00
SUNSET WATER PLANT	4911	0.00	0.00
TAR RIVER WATER PLANT	4911	0.00	0.01
TIETEX CREATIONS IND – SHEFFIELD PLANT	2262	0.00	0.02
Total County Emissions		1.45	0.60

4.4 SUMMARY OF EMISSIONS FOR 2011

Table 4.4-1 Summary Of 2011 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
AIR SYSTEM COMPONENTS	3433	0.01	0.00
BARNHILL CONTRACTING COMPANY	2951	0.02	0.04
CAROLINA TELEPHONE AND TELEGRAPH SPRINT	4813	0.00	0.12
CITY OF ROCKY MOUNT – AT AMACO FIBERS	4911	0.00	0.05
CITY OF ROCKY MOUNT, TAR RIVER WWTP	4952	0.00	0.02
CITY OF WILSON – PINETOPS GENSET	4911	0.00	0.02
COGENTRIX OF ROCKY MOUNT	4911	0.02	2.29
GENERAL FOAM PLASTICS, INC.	3944	0.00	0.03
GLENOIT MILLS, INC.	2273	0.00	0.03
HC COMPOSITES, LLC	3732	0.17	0.00
HICKORY SPRINGS MANUFACTURING COMPANY	3086	0.02	0.00
LONG AGRIBUSINESS, LLC	3523	0.03	0.00
NC NATURAL GAS - BATTLEBORO	2511	0.00	0.02
NEVARMAR COMPANY, LLC	2499	0.11	0.01
NOMACO INC – TARBORO	3086	4.25	0.00
PRETTY GOOD SAND COMPANY, INC.	1442	0.00	0.02
SARA LEE BAKERY	2053	0.10	0.05
TRINITY INDUSTRIES	3443	0.01	0.00
Total County Emissions		4.74	2.70

Table 4.4-2 Summary Of 2011 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NO_x (tons / day)
BEFCO, INC.	3523	0.04	0.00
BELT CONCEPTS OF AMERICA, INCORPORATED	3052	0.00	0.01
BRIGADEIR HOMES OF NORTH CAROLINA	2451	0.01	0.00
CAROLINA STEEL CORPORATION	3441	0.01	0.00
CAROLINA'S CHOICE BY WILLIAMS, INC.	2521	0.03	0.00
CITY OF ROCKY MOUNT – AT ILCO UNICAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – MCLANE COMPANY	4911	0.00	0.01
CITY OF ROCKY MOUNT – OWENS BROCKWAY	4911	0.00	0.01
CONSOLIDATED DIESEL COMPANY	3519	0.26	0.48
CUSTOM BOAT WORKS, INC.	3732	0.01	0.00
EAST COAST PLYWOOD COMPANY	2435	0.01	0.00
EATON AEROQUIP INCORPORATED	3052	0.31	0.00
FAWN INDUSTRIES INC. – MIDDLESEX PLT.	3089	0.39	0.00
HONEYWELL INTERNATIONAL, INC.	3728	0.04	0.00
INTERSTATE BRANDS – MERITA	2051	0.42	0.02
KABA ILCO CORPORATION	3356	0.00	0.00
NASH HOSPITALS, INC.	8062	0.00	0.02
PERDUE FARMS NASHVILLE - FEED MILL	2048	0.00	0.03
STRICKLAND INDUSTRIES	3479	0.03	0.00
SUNSET WATER PLANT	4911	0.00	0.00
TAR RIVER WATER PLANT	4911	0.00	0.01
TIETEX CREATIONS IND – SHEFFIELD PLANT	2262	0.00	0.02
Total County Emissions		1.56	0.63

4.5 SUMMARY OF EMISSIONS FOR 2014

Table 4.5-1 Summary Of 2014 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
AIR SYSTEM COMPONENTS	3433	0.01	0.00
BARNHILL CONTRACTING COMPANY	2951	0.02	0.05
CAROLINA TELEPHONE AND TELEGRAPH SPRINT	4813	0.00	0.13
CITY OF ROCKY MOUNT – AT AMACO FIBERS	4911	0.00	0.05
CITY OF ROCKY MOUNT, TAR RIVER WWTP	4952	0.00	0.02
CITY OF WILSON – PINETOPS GENSET	4911	0.00	0.02
COGENTRIX OF ROCKY MOUNT	4911	0.02	2.29
GENERAL FOAM PLASTICS, INC.	3944	0.00	0.04
GLENOIT MILLS, INC.	2273	0.00	0.03
HC COMPOSITES, LLC	3732	0.18	0.00
HICKORY SPRINGS MANUFACTURING COMPANY	3086	0.02	0.00
LONG AGRIBUSINESS, LLC	3523	0.03	0.00
NC NATURAL GAS - BATTLEBORO	2511	0.00	0.02
NEVARMAR COMPANY, LLC	2499	0.12	0.01
NOMACO INC – TARBORO	3086	4.68	0.00
PRETTY GOOD SAND COMPANY, INC.	1442	0.00	0.02
SARA LEE BAKERY	2053	0.11	0.05
TRINITY INDUSTRIES	3443	0.01	0.00
Total County Emissions		5.20	2.73

Table 4.5-2 Summary Of 2014 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
BEFCO, INC.	3523	0.04	0.00
BELT CONCEPTS OF AMERICA, INCORPORATED	3052	0.00	0.01
BRIGADEIR HOMES OF NORTH CAROLINA	2451	0.01	0.00
CAROLINA STEEL CORPORATION	3441	0.01	0.00
CAROLINA'S CHOICE BY WILLIAMS, INC.	2521	0.04	0.00
CITY OF ROCKY MOUNT – AT ILCO UNICAN	4911	0.00	0.02
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN	4911	0.00	0.01
CITY OF ROCKY MOUNT – MCLANE COMPANY	4911	0.00	0.02
CITY OF ROCKY MOUNT – OWENS BROCKWAY	4911	0.00	0.01
CONSOLIDATED DIESEL COMPANY	3519	0.27	0.51
CUSTOM BOAT WORKS, INC.	3732	0.01	0.00
EAST COAST PLYWOOD COMPANY	2435	0.01	0.00

Table 4.5-2 Summary Of 2014 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
EATON AEROQUIP INCORPORATED	3052	0.34	0.00
FAWN INDUSTRIES INC. – MIDDLESEX PLT.	3089	0.42	0.00
HONEYWELL INTERNATIONAL, INC.	3728	0.04	0.01
INTERSTATE BRANDS – MERITA	2051	0.43	0.02
KABA ILCO CORPORATION	3356	0.00	0.00
NASH HOSPITALS, INC.	8062	0.00	0.02
PERDUE FARMS NASHVILLE - FEED MILL	2048	0.00	0.03
STRICKLAND INDUSTRIES	3479	0.03	0.00
SUNSET WATER PLANT	4911	0.00	0.00
TAR RIVER WATER PLANT	4911	0.00	0.01
TIETEX CREATIONS IND – SHEFFIELD PLANT	2262	0.00	0.02
Total County Emissions		1.65	0.69

4.6 SUMMARY OF EMISSIONS FOR 2017

Table 4.6-1 Summary Of 2017 Emissions For Edgecombe County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
AIR SYSTEM COMPONENTS	3433	0.01	0.00
BARNHILL CONTRACTING COMPANY	2951	0.03	0.05
CAROLINA TELEPHONE AND TELEGRAPH SPRINT	4813	0.00	0.14
CITY OF ROCKY MOUNT – AT AMACO FIBERS	4911	0.00	0.05
CITY OF ROCKY MOUNT, TAR RIVER WWTP	4952	0.00	0.02
CITY OF WILSON – PINETOPS GENSET	4911	0.00	0.02
COGENTRIX OF ROCKY MOUNT	4911	0.02	2.29
GENERAL FOAM PLASTICS, INC.	3944	0.00	0.04
GLENOIT MILLS, INC.	2273	0.00	0.03
HC COMPOSITES, LLC	3732	0.19	0.00
HICKORY SPRINGS MANUFACTURING COMPANY	3086	0.02	0.00
LONG AGRIBUSINESS, LLC	3523	0.03	0.00
NC NATURAL GAS - BATTLEBORO	2511	0.00	0.03
NEVARMAR COMPANY, LLC	2499	0.13	0.01
NOMACO INC – TARBORO	3086	5.10	0.00
PRETTY GOOD SAND COMPANY, INC.	1442	0.00	0.02
SARA LEE BAKERY	2053	0.11	0.06
TRINITY INDUSTRIES	3443	0.01	0.00
Total County Emissions		5.65	2.76

Table 4.6-2 Summary Of 2017 Emissions For Nash County

PLANT	SIC #	VOC (tons / day)	NOx (tons / day)
BEFCO, INC.	3523	0.04	0.00
BELT CONCEPTS OF AMERICA, INCORPORATED	3052	0.00	0.01
BRIGADEIR HOMES OF NORTH CAROLINA	2451	0.01	0.00
CAROLINA STEEL CORPORATION	3441	0.01	0.00
CAROLINA'S CHOICE BY WILLIAMS, INC.	2521	0.04	0.00
CITY OF ROCKY MOUNT – AT ILCO UNICAN	4911	0.00	0.02
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN	4911	0.00	0.02
CITY OF ROCKY MOUNT – MCLANE COMPANY	4911	0.00	0.02
CITY OF ROCKY MOUNT – OWENS BROCKWAY	4911	0.00	0.01
CONSOLIDATED DIESEL COMPANY	3519	0.29	0.53
CUSTOM BOAT WORKS, INC.	3732	0.01	0.00
EAST COAST PLYWOOD COMPANY	2435	0.01	0.00
EATON AEROQUIP INCORPORATED	3052	0.37	0.00
FAWN INDUSTRIES INC. – MIDDLESEX PLT.	3089	0.46	0.00
HONEYWELL INTERNATIONAL, INC.	3728	0.05	0.01
INTERSTATE BRANDS – MERITA	2051	0.45	0.02
KABA ILCO CORPORATION	3356	0.00	0.00
NASH HOSPITALS, INC.	8062	0.00	0.02
PERDUE FARMS NASHVILLE - FEED MILL	2048	0.00	0.03
STRICKLAND INDUSTRIES	3479	0.04	0.00
SUNSET WATER PLANT	4911	0.00	0.00
TAR RIVER WATER PLANT	4911	0.00	0.01
TIETEX CREATIONS IND – SHEFFIELD PLANT	2262	0.00	0.02
Total County Emissions		1.78	0.72

5.0 DISCUSSION OF POINT SOURCE CATEGORIES

Industrial processes in the inventory are identified with 8-digit numbers known as the Source Classification Codes (SCC). These are grouped numerically into a number of categories for convenience. The following is the projected 2005 inventory reported by SCC. In general, the first three digits of the SCC code describe the process and the last five digits give more detail as to the fuel used, size of source, etc. The sections that follow are grouped by the first three digits of the SCC code.

It should be noted that the SCC in any particular instance was selected by an individual entering inventory data into a computer maintained database. It may be that in some cases, other individuals would have selected other codes. In some cases, there are two or three parallel codes that describe the same sort of equipment, the difference being size. In other cases, one is able to select a general code for an overall process or use several more specific codes that together would be covered by the more general one. If, upon consideration, it appears that a more appropriate code could have been selected, that does not mean that the reported emissions are inaccurate.

A listing of SCC with descriptions may be found in FIRE Version 5.0 Source Classification Codes And Emission Factor Listing For Criteria Air Pollutants, EPA-454/R-95-012.

5.1 EXTERNAL COMBUSTION BOILERS

Table 5.1-1 tabulates the emissions for the SCC codes 1-01-xxx-xx, boilers for electrical generation. The emissions for the SCC codes 1-02-xxx-xx, industrial boilers, are tabulated in Table 5.1-2. The emissions from commercial and institutional boilers, SCC codes 1-03-xxx-xx, are tabulated in Table 5.1-3. These are primarily of interest due to NO_x emissions.

Table 5.1-1 Summary Of SCC 1-01-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Nash County</i>			
CITY OF ROCKY MOUNT MCLANE COMPANY			
PROCESS ID:	10100501	0.000	0.008
TOTAL		0.000	0.008

Table 5.1-2 Summary Of SCC 1-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NOx (tons / day)
<i>Edgecombe County</i>			
COGENTRIX OF ROCKY MOUNT*			
PROCESS ID: 1	10200204	0.006	1.300
PROCESS ID: 2	10200204	0.007	1.300
TOTAL		0.013	2.600
SARA LEE BAKERY			
PROCESS ID: 5	10200501	0.001	0.010
TOTAL		0.001	0.010
GENERAL FOAM PLASTICS, INC			
PROCESS ID: 2	10200501	0.001	0.020
TOTAL		0.001	0.02
GLENOIT MILLS, INC			
PROCESS ID: 1	10200602	0.000	0.028
TOTAL		0.000	0.028
AIR SYSTEMS COMPONENTS			
PROCESS ID: 8	10200602	0.000	0.000
PROCESS ID: 6	10200603	0.000	0.000
PROCESS ID: 7	10200603	0.000	0.000
TOTAL		0.000	0.000
<i>Nash County</i>			
PERDUE FARMS NASHVILLE FEED MILL			
PROCESS ID: 1	10200401	0.000	0.027
TOTAL		0.000	0.027
BURLINGTON IND – SHEFFIELD PLT			
PROCESS ID: 1	10200401	0.000	0.035
TOTAL		0.000	0.035
INTERSTATE BRAND – MERITA*			
PROCESS ID: 5	10200603	0.000	0.004
PROCESS ID: 6	10200603	0.000	0.003
TOTAL		0.000	0.007
ILCO UNICAN CORPORATION			
PROCESS ID: 1	10200603	0.000	0.002
TOTAL		0.000	0.002

Table 5.1-3 Summary Of SCC 1-03-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Edgecombe County</i>			
NEVARMAR COMPANY, LLC			
PROCESS ID: 2	10300502	0.000	0.003
PROCESS ID: 3	10300502	0.000	0.003
TOTAL		0.000	0.006
SARA LEE BAKERY			
PROCESS ID: 2	10300602	0.001	0.010
TOTAL		0.001	0.010
<i>Nash County</i>			
NASH GENERAL HOSPITAL			
PROCESS ID: 1	10300501	0.000	0.022
TOTAL		0.000	0.022
TIETEX CREATIONS IND - SHEFFIELD PLT			
PROCESS ID: 3	10300601	0.000	0.000
TOTAL		0.000	0.000
TIETEX CREATIONS IND - SHEFFIELD PLT			
PROCESS ID: 1	10300602	0.001	0.010
TOTAL		0.001	0.010
CONSOLIDATED DIESEL COMPANY			
PROCESS ID: 9	10300602	0.000	0.006
TOTAL		0.000	0.006
HONEYWELL INTERNATIONAL, INC			
PROCESS ID: 1	10300602	0.000	0.005
TOTAL		0.000	0.005
CONSOLIDATED DIESEL			
PROCESS ID: 15	10301003	0.000	0.005
TOTAL		0.000	0.005

5.2 INTERNAL COMBUSTION ENGINES

Stationary internal combustion (IC) engines can be used on a daily basis or used only for backup power. Fuels can be gasoline, oil or various combustible gases depending on the engine design. Engines may be either turbines or reciprocating. The SCC codes 2-01-xxx-xx represent IC engines for electrical generation. The emissions from these sources are tabulated in Table 5.2-1. Industrial engines are classified in the 2-02-xxx-xx group (summarized in Table 5.2-2) while engines for commercial and institutional use are in the 2-03-xxx-xx group (summarized in Table 5.2-3). The emissions from internal combustion engines for engine testing (SCC group 2-04-xxx-xx) are summarized in Table 5.2-4.

Table 5.2-1 Summary Of SCC 2-01-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Edgecombe County</i>			
SARA LEE BAKERY			
PROCESS ID: 14	20100102	0.000	0.000
PROCESS ID: 15	20100102	0.000	0.000
PROCESS ID: 17	20100102	0.000	0.007
PROCESS ID: 18	20100102	0.000	0.007
TOTAL		0.000	0.014
CITY OF WILSON – PINETOPS GENSET			
PROCESS ID: 1	20100102	0.000	0.017
TOTAL		0.000	0.017
CAROLINA TELEPHONE AND TELEGRAPH SPRINT			
PROCESS ID: 1	20100102	0.000	0.092
TOTAL		0.000	0.092
<i>Nash County</i>			
CITY OF ROCKY MOUNT – AT INTERSTATE BRAN			
PROCESS ID: 1	20100102	0.000	0.012
TOTAL		0.000	0.012
CITY OF ROCKY MOUNT - MCLANE COMPANY			
PROCESS ID: 1	20100102	0.000	0.013
TOTAL		0.000	0.013
CITY OF ROCKY MOUNT – OWENS BROCKWAY			
PROCESS ID: 1	20100102	0.000	0.009
TOTAL		0.000	0.009

Table 5.2-2 Summary Of SCC 2-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Edgecombe County</i>			
GENERAL FOAM PLASTICS, INC.			
PROCESS ID: 2	20200102	0.192	0.000
TOTAL		0.192	0.000
NC NATURAL GAS – BATTLEBORO			
PROCESS ID: 1	20200201	0.001	0.021
TOTAL		0.001	0.021
NOMACO INC. – TARBORO			
PROCESS ID: 8	20200202	0.000	0.000
TOTAL		0.000	0.000
COGENTRIX OF ROCKY MOUNT			
PROCESS ID: 9	20200401	0.000	0.000
TOTAL		0.000	0.000

Table 5.2-2 Summary Of SCC 2-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
CITY OF ROCKY MOUNT – AT AMOCO FIBERS			
PROCESS ID: 1	20200401	0.000	0.013
PROCESS ID: 2	20200401	0.000	0.013
PROCESS ID: 3	20200401	0.000	0.013
TOTAL		0.000	0.039
<i>Nash County</i>			
CITY OF ROCKY MOUNT – OWENS BROCKWAY			
PROCESS ID: 1	20200102	0.000	0.000
TOTAL		0.000	0.000
CITY OF ROCKY MOUNT – AT ILCO UNICAN			
PROCESS ID: 1	20200401	0.000	0.013
TOTAL		0.000	0.013

Table 5.2-3 Summary Of SCC 2-03-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Edgecombe County</i>			
CITY OF ROCKY MOUNT – TAR RIVER WWTP			
PROCESS ID: 2	20300101	0.001	0.018
TOTAL		0.001	0.018
<i>Nash County</i>			
CONSOLIDATED DIESEL COMPANY			
PROCESS ID: 7	20300101	0.001	0.066
TOTAL		0.001	0.066
SUNSET WATER PLANT			
PROCESS ID: 1	20300101	0.000	0.003
TOTAL		0.000	0.003
TAR RIVER WATER PLANT			
PROCESS ID: 1	20300101	0.000	0.006
TOTAL		0.000	0.006

Table 5.2-4 Summary Of SCC 2-04-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Nash County</i>			
CONSOLIDATED DIESEL COMPANY			
PROCESS ID: 6	20400402	0.028	0.342
TOTAL		0.028	0.342

5.3 INDUSTRIAL PROCESSES

There are a large number of SCCs under the heading of industrial processes. Many of these are of most significance for VOCs but some do emit NOx. The emissions from chemical manufacturing, SCC codes 3-01-xxx-xx, are tabulated in Table 5.3-1. The emissions from food and agriculture, SCC codes 3-02-xxx-xx, are summarized in Table 5.3-2. Mineral products processes are in the SCC group 3-05-xxx-xx (summarized in Table 5.3-3); and pulp and paper and wood products are in 3-07-xxx-xx (Table 5.3-4). Table 5.3-5 tabulates the emissions from fabricated metal products, SCC group 3-09-xxx-xx. SCC group 3-12-xxx-xx is miscellaneous machinery (Table 5.3-6) and transportation equipment emissions (SCC group 3-14-xxx-xx) are summarized in Table 5.3-7. Processes for textile products are summarized in Table 5.3-8 (SCC group 3-30-xxx-xx). In-process fuel use can result in significant NOx emissions and is in category 3-90-xxx-xx (Table 5.3-8). Miscellaneous manufacturing industries are in SCC group 3-99-xxx-xx with the emissions summarized in Table 5.3-9.

Table 5.3-1 Summary Of SCC 3-01-xxx-xx Emissions

	SCC	VOC (tons / day)	NOx (tons / day)
<i>Edgecombe County</i>			
NEVARMAR COMPANY, LLC			
PROCESS ID: 6	30112007	0.001	0.000
TOTAL		0.001	0.000
<i>Nash County</i>			
EATON AEROQUIP INCORPORATED			
PROCESS ID: 1	30101852	0.060	0.000
PROCESS ID: 9	30101852	0.049	0.000
PROCESS ID: 10	30101852	0.049	0.000
PROCESS ID: 11	30101852	0.000	0.000
PROCESS ID: 13	30101852	0.049	0.000
PROCESS ID: 14	30101852	0.049	0.000
PROCESS ID: 15	30101852	0.001	0.000
PROCESS ID: 16	30101852	0.001	0.000
PROCESS ID: 18	30101852	0.001	0.000
PROCESS ID: 19	30199999	0.000	0.000
TOTAL		0.259	0.000

Table 5.3-2 Summary Of SCC 3-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Edgecombe County</i>			
SARA LEE BAKERY			
PROCESS ID: 1	30203202	0.047	0.007
PROCESS ID: 20	30203202	0.047	0.007
TOTAL		0.094	0.014
<i>Nash County</i>			
PERDUE FARMS			
PROCESS ID: 2	30200605	0.000	0.000
TOTAL		0.000	0.000
INTERSTATE BRAND - MERITA			
PROCESS ID: 1	30203202	0.088	0.002
PROCESS ID: 2	30203202	0.038	0.001
PROCESS ID: 3	30203202	0.085	0.001
PROCESS ID: 4	30203202	0.169	0.004
TOTAL		0.380	0.008

Table 5.3-3 Summary Of SCC 3-05xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Edgecombe County</i>			
BARN HILL CONTRACTING COMPANY			
PROCESS ID: 1	30500298	0.017	0.034
TOTAL		0.017	0.034
PRETTY GOOD SAND COMPANY, INC.			
PROCESS ID: 1	30502523	0.000	0.016
TOTAL		0.000	0.016
<i>Nash County</i>			
AMERICAN ROCKWOOL INCORPORATED			
PROCESS ID: 1	30501701	0.000	0.038
PROCESS ID: 2	30501701	0.000	0.006
TOTAL		0.000	0.044

Table 5.3-4 Summary Of SCC 3-07xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Nash County</i>			
EAST COAST PLYWOOD COMPANY			
PROCESS ID: 1	30700804	0.010	0.000
TOTAL		0.010	0.000

Table 5.3-5 Summary Of SCC 3-09-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Nash County</i>			
EATON AEROQUIP INCORPORATED			
PROCESS ID: 5	30988806	0.001	0.000
TOTAL		0.001	0.000

Table 5.3-6 Summary Of SCC 3-12-xxx-xx Emissions

	SCC	VOC (tons / day)	NO _x (tons / day)
<i>Edgecombe County</i>			
GENERAL FOAM PLASTICS, INC.			
PROCESS ID: 3	31299999	0.000	0.000
TOTAL		0.000	0.000
NOMACO INC. – TARBORO			
PROCESS ID: 9	31299999	0.656	0.000
PROCESS ID: 14	31299999	0.152	0.000
PROCESS ID: 15	31299999	0.023	0.000
PROCESS ID: 16	31299999	0.000	0.000
PROCESS ID: 17	31299999	1.078	0.000
PROCESS ID: 18	31299999	0.027	0.000
TOTAL		1.936	0.000
<i>Nash County</i>			
HONEYWELL INTERNATIONAL, INC.			
PROCESS ID: 4	31299999	0.000	0.000
TOTAL		0.000	0.000

Table 5.3-7 Summary Of SCC 3-14-xxx-xx Emissions

	SCC	VOC (tons / day)	NOx (tons / day)
<i>Edgecombe County</i>			
CONSOLIDATED DIESEL			
PROCESS ID: 17	31400903	0.081	0.000
PROCESS ID: 18	31400903	0.004	0.000
PROCESS ID: 12	31499999	0.000	0.000
TOTAL		0.085	0.000

Table 5.3-8 Summary Of SCC 3-30-xxx-xx Emissions

	SCC	VOC (tons / day)	NOx (tons / day)
<i>Edgecombe County</i>			
GLENOIT MILLS, INC.			
PROCESS ID: 2	33000499	0.001	0.000
TOTAL		0.001	0.000
<i>Nash County</i>			
BURLINGTON INDUSTRIES – SHEFFIELD PLT.			
PROCESS ID: 2	33000198	0.008	0.000
TOTAL		0.008	0.000
TIETEX CREATIONS IND. – SHEFFIELD PLT.			
PROCESS ID: 4	33000499	0.000	0.007
PROCESS ID: 5	33000499	0.002	0.000
TOTAL		0.002	0.007

Table 5.3-9 Summary Of SCC 3-90-xxx-xx Emissions

	SCC	VOC (tons / day)	NOx (tons / day)
<i>Edgecombe County</i>			
AIR SYSTEMS COMPONENTS			
PROCESS ID: 4	39000699	0.001	0.001
PROCESS ID: 5	39000699	0.001	0.001
TOTAL		0.002	0.002
TRINITY INDUSTRIES, INC.			
PROCESS ID: 1	39999993	0.009	0.000
TOTAL		0.009	0.000
NOMACO INC. – TARBORO			
PROCESS ID: 21	39999994	1.344	0.000
PROCESS ID: 22	39999994	0.120	0.000
PROCESS ID: 20	39999995	0.023	0.000
TOTAL		1.487	0.000

Table 5.3-9 Summary Of SCC 3-90-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
GENERAL FOAM PLASTICS, INC.			
PROCESS ID: 1	39999995	0.000	0.025
TOTAL		0.000	0.025
HICKORY SPRINGS MANUFACTURING CO.			
PROCESS ID: 1	39999995	0.012	0.000
TOTAL		0.012	0.000
<i>Nash County</i>			
CAROLINA STEEL CORPORATION			
PROCESS ID: 1	39999993	0.017	0.000
TOTAL		0.017	0.000
ILCO UNICAN CORPORATION			
PROCESS ID: 2	39999994	0.000	0.000
TOTAL		0.000	0.000
CONSOLIDATED DIESEL			
PROCESS ID: 2	39999994	0.000	0.000
TOTAL		0.000	0.000
BELT CONCEPTS OF AMERICA INCORPORATED			
PROCESS ID: 1	39999994	0.000	0.006
TOTAL		0.000	0.006
HONEYWELL INTERNATIONAL, INC			
PROCESS ID: 3	39999996	0.037	0.000
PROCESS ID: 6	39999996	0.000	0.000
TOTAL		0.037	0.000
INTERSTATE BRANDS – MERITA			
PROCESS ID: 24	39999998	0.009	0.000
TOTAL		0.009	0.000

5.4 PETROLEUM AND SOLVENT EVAPORATION

This group of sources emits only VOCs. SCC in the 4-01-xxx-xx group are for organic solvent evaporation and are summarized in Table 5.4-1. Surface coating operations (summarized in Table 5.4-2) are grouped under SCC 4-02-xxx-xx. Printing and publishing emissions, tabulated in Table 5.4-3, are in the 4-05-xxx-xx SCC group. The final SCC group in this source category is 4-07-xxx-xx and covers organic chemical storage (Table 5.4-4).

Table 5.4-1 Summary Of SCC 4-01-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Edgecombe County</i>			
COGENTRIX OF ROCKY MOUNT			
PROCESS ID: 14	40100398	0.000	0.000
PROCESS ID: 13	40188898	0.001	0.000
TOTAL		0.001	0.000
<i>Nash County</i>			
EATON AEROQUIP INCORPORATED			
PROCESS ID: 8	40100398	0.002	0.000
TOTAL		0.002	0.000

Table 5.4-2 Summary Of SCC 4-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Edgecombe County</i>			
LONG AGRIBUSINESS, LLC			
PROCESS ID:	40200711	0.024	0.002
TOTAL		0.024	0.002
NEVARMAR COMPANY, LLC			
PROCESS ID: 4	40201301	0.089	0.000
TOTAL		0.089	0.000
HC COMPOSITES, LLC			
PROCESS ID: 1	40202301	0.169	0.000
TOTAL		0.169	0.000
AIR SYSTEM COMPONENTS			
PROCESS ID: 2	40202544	0.001	0.000
PROCESS ID: 3	40202544	0.000	0.000
PROCESS ID: 1	40202599	0.002	0.000
TOTAL		0.003	0.000
COGENTRIX OF ROCKY MOUNT			
PROCESS ID: 10	40299998	0.001	0.000
TOTAL		0.001	0.000
<i>Nash County</i>			
CONSOLIDATED DIESEL COMPANY			
PROCESS ID: 3	40200110	0.101	0.000
PROCESS ID: 4	40200110	0.005	0.000
PROCESS ID: 5	40200110	0.000	0.000
PROCESS ID: 10	40200110	0.002	0.000
PROCESS ID: 14	40200110	0.002	0.000
TOTAL		0.110	0.000

Table 5.4-2 Summary Of SCC 4-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
BEFCO INC.			
PROCESS ID: 1	40200110	0.031	0.000
TOTAL		0.031	0.000
BRIGADIER HOMES OF NORTH CAROLINA			
PROCESS ID: 1	40200610	0.009	0.000
TOTAL		0.009	0.000
EATON AEROQUIP INCORPORATED			
PROCESS ID: 2	40200701	0.000	0.000
TOTAL		0.000	0.000
CAROLINA'S CHOICE BY WILLIAMS, INC.			
PROCESS ID: 1	40201901	0.028	0.000
TOTAL		0.028	0.000
FAWN INDUSTRIES			
PROCESS ID: 3	40202240	0.025	0.000
PROCESS ID: 4	40202240	0.119	0.000
PROCESS ID: 5	40202240	0.160	0.000
PROCESS ID: 6	40202240	0.006	0.000
TOTAL		0.310	0.000
STRICKLAND INDUSTRIES, INC.			
PROCESS ID: 1	40202501	0.021	0.000
TOTAL		0.021	0.000
CAROLINA STEEL CORPORATION			
PROCESS ID: 1	40202551	0.007	0.000
TOTAL		0.007	0.000
CUSTOM BOAT WORKS			
PROCESS ID: 1	40288822	0.012	0.000
TOTAL		0.012	0.000
EATON AEROQUIP INCORPORATED			
PROCESS ID: 3	40299995	0.0	0.000
PROCESS ID: 17	40299995	0.001	0.000
TOTAL		0.001	0.000
EATON AEROQUIP INCORPORATED			
PROCESS ID: 12	40299999	0.002	0.000
TOTAL		0.002	0.000

Table 5.4-3 Summary Of SCC 4-05-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Nash County</i>			
EATON AEROQUIP INCORPORATED			
PROCESS ID: 22	40500597	0.000	0.000
TOTAL		0.000	0.000

Table 5.4-4 Summary Of SCC 4-07-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Edgecombe County</i>			
NEVARMAR COMPANY, LLC			
PROCESS ID: 8	40799999	0.004	0.000
PROCESS ID: 9	40799999	0.004	0.000
TOTAL		0.008	0.000

5.5 WASTE DISPOSAL

Commercial and institutional solid waste disposal processes are in the 5-02-xxx-xx SCC group and the emissions are summarized in Table 5.5-1.

Table 5.5-1 Summary Of SCC 5-02-xxx-xx Emissions

	SCC	VOC (tons / day)	NO_x (tons / day)
<i>Nash County</i>			
NASH GENERAL HOSPITAL			
PROCESS ID: 2	50200504	0.001	0.000
TOTAL		0.001	0.000