ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

Enter Calendar Date

Mr. Necmi Dogan
Site Manager
Gränges Americas, Inc.
1709 Jake Alexander Boulevard South
Salisbury, NC 28146

SUBJECT: Air Quality Permit No. 02397T26
Facility ID: 8000057
Gränges Americas, Inc.
Salisbury, North Carolina
Rowan County
Fee Class: Title V
PSD Status: Major

Dear Mr. Joyner:

In accordance with your completed Air Quality Permit Application for renewal of your Title V permit received April 14, 2021, we are forwarding herewith Air Quality Permit No. 02397T26 to Granges Americas, Inc., 1709 Jake Alexander Boulevard, Rowan County, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Rowan County has triggered increment tracking under PSD for sulfur dioxide (SO_2), particulate matter 10 (PM_{10}), particulate matter 2.5 ($PM_{2.5}$), and nitrogen dioxide (NO_x). However, this permit modification does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from ***(Issuance Date)*** until ***(Expiration Date)***, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Eric L. Crump, P.E. at eric.crump@ncdenr.gov or (919) 707-8470.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Michael Sparks, EPA Region 4 (Permit and cover letter)
Bruce Ingle, Mooresville Regional Office
Central Files
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 02397T26

Insignificant Activities under 15A NCAC 02Q .0503(8)

Emission Source ID	Emission Source Description
I-WL	waste oil loading operations
I-TH	two natural gas-fired heaters (2 million Btu per hour heat input capacity)
I-PL	one propane loading station
I-PST	petroleum product storage tanks
I-TSC	trim scrap handling system with three cyclones
I-WO	one waste oil/water collection tank
I-PCT	parts cleaning tanks
I-MS2	one caster tip preparation workshop with bagfilter
I-LL	one leveling line with wet scrubber
I-MST	one mineral spirits storage tank (10,000-gallon capacity)
I-AO	one acid dip operation
I-FO1, I-FO2, and I-FO3	three fuel oil tanks
I-K1, I-K2, I-K3	three kerosene tanks
I-NG1, I-NG2, I-NG3, I-NG4, I-NG5, I-NG6, and I-NG7	seven nitrogen generators
I-NS	one nitrogen separator

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the Permittee is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit.”
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled “Specific Permit Conditions Regulatory Guide.” The link to this site is as follows: http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide.

Summary of Changes to Permit

The following changes were made to the Gränges Americas, Inc. - Salisbury, Air Permit No. 02397T25:

Page No.	Section	Description of Changes
Cover and throughout	---	Updated all dates and permit revision numbers
3-4	1	• Changed "tons" to ton in emission source descriptions for furnaces (ID Nos. FR-1- through FR-14) • Deleted "**CAM**" from Emission Source ID No. column for cold rolling mills (Nos. RM-1 through RM-5) • Changed "**PSD**" in Emission Source ID No. column for cold rolling mills (Nos. RM-4 and RM-5)to "**BACT**"
5-6	2.1 A	• Changed "afterburner" to "afterburners" in list of emission sources and control devices • Deleted extra "Visible Emissions" in Regulated Pollutant column of summary of limits and standards table • Changed "RACT for VOC" to "VOC RACT" in Applicable Regulation column of summary of limits and standards table • In Applicable Regulation column of summary of limits and standards table: o Changed "Avoidance for NAA NSR" to "NAA NSR Avoidance" o Changed "Avoidance for MACT" to "MACT Avoidance" o Changed "Avoidance for RACT" to "RACT Avoidance"
6	2.1 A.1. 2.1 A.1.e 2.1 A.2.a 2.1 A.2.b	Inserted "the coil" before each incidence of "anneal furnace"; changed "pound per million" to "pounds per million" Deleted excess periods from section citation • Replaced "these sources" with ID numbers of melt and holding furnaces • Included both equations from 02D .0515 for calculating allowable emission rate Deleted excess period from section citation
7	2.1 A.2.c 2.1 A.3.a 2.1 A.3.b, e 2.1 A.3.g 2.1 A.4.d 2.1 A 4.e	Added "from the firing of . . . **through FR-8**)" to the end of this clause. Changed "the combustion sources" to "these combustion sources" Deleted excess period from section citations Changed "contaminated kerosene" to "spent rolling oil" Included No. 2 fuel oil as one of the fuels fired • Updated to most current version stipulation for 02D .0521, Control of Visible Emissions. • Added "when firing spent rolling oil after "To ensure compliance"

Page No.	Section	Description of Changes
8	2.1 A.4.f 2.1 A.4.j	• Added ID number for afterburners (ID No. IN-2). • Added list of fuels burned when FR-4 is controlled by afterburners Updated to reflect most current stipulation for 15A NCAC 02 .0521, Control of Visible Emissions
9	2.1 B 2.1 B.1.d	In Applicable Regulation column of summary of limits and standards table: • Removed letters and numbers in parentheses from all citations of 15A NCAC • Removed "[40 CFR 64]" • Changed "RACT for VOC" to "VOC RACT" • Changed "Avoidance for NAA NSR" to "NAA NSR Avoidance" • Added source ID Nos. (RM-1 through RM-5) • Updated to reflect most current stipulation for 15A NCAC 02 .0521, Control of Visible Emissions
10	2.1 B.1.e 2.1 B.1.h 2.1 B.2	Added source ID numbers for mist eliminators (RM-1ME, RM-2ME, RM-3MEN, RM-3MES, RM-4ME, and RM-5ME), and included stack skimmers (RM-4SS and RM-5SS) Updated to reflect most current stipulation for 15A NCAC 02 .0521, Control of Visible Emissions • Updated to reflect most current stipulation for 15A NCAC 02 .0530, Prevention of Significant Deterioration • Deleted testing paragraph (former paragraph b) and changed lettering of remaining paragraphs in this section from c-f to b-e
10-13	2.1 B.3	Updated to most current stipulations for 02D .0614, Compliance Assurance Monitoring
13	2.1 C.1	Updated to reflect most current stipulation for 15A NCAC 02 .0521, Control of Visible Emissions
15	2.2 A	In Applicable Regulation column of summary of limits and standards table: • Changed "Avoidance for NAA NSR" to "NAA NSR Avoidance" • Changed "Avoidance for MACT" to "MACT Avoidance" • Changed "Avoidance for RACT" to "RACT Avoidance" • Changed "RACT for VOC" to "VOC RACT" • Removed unnecessary letters and numbers in parentheses from all citations of 15A NCAC
16	2.2 A.1.b-d, f, g 2.2 A.2.a.vi	Deleted excess period from section citations Changed "close" to "closing"
17	2.2 A.3 2.2 A.3.a	Updated section to reflect most current stipulation for 02D .1100, Control of Toxic Air Pollutants (including references to air dispersion modeling analyses and permit applications) Inserted requirements from former paragraph b in Section 2.2 A.8 (spent rolling oil requirements) Deleted excess period from section citations

Page No.	Section	Description of Changes
18-19	2.2 A.5	• Updated section to reflect most current stipulation for 0317, Avoidance Conditions for 15A NCAC 02D .0531: Sources in Nonattainment Areas • Reformatted equations with math editor and defined additional variables
20-21	2.2 A.7.a 2.2 A.7.c.i, ii	Changed 15A NCAC citation in brackets from 02D .1402(h)(5) to 02D .1402(d) Reformatted equations with math editor and defined additional variables, and created new paragraph iii from existing text in paragraph ii
21-22	2.2 A.8	• Updated section to reflect the most current stipulations for 15A NCAC 02Q .0711, Emission Rates Requiring a Permit (replacing former paragraph a with new paragraphs a-d) • Relocated former paragraph b (spent rolling oil requirements) to Section 2.2 A.3
23-33	3	Updated General Conditions to Version 5.5 dated August 25, 2020

State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
02397T26	02397T25	XXXX	XXXX

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: Gränges Americas Incorporated

Facility ID: 8000057
Facility Site Location: 1709 Jake Alexander Boulevard South
City, County, State, Zip: Salisbury, Rowan County, North Carolina 28146

Mailing Address: 1709 Jake Alexander Boulevard South
City, State, Zip: Salisbury, North Carolina 28146

Application Number: 8000057.21A
Complete Application Date: April 14, 2021

Primary SIC Code: 3353
Division of Air Quality: Mooresville Regional Office
Regional Office Address: 610 East Center Avenue, Suite 301
Mooresville, North Carolina 28115

Permit issued this the XX day of XXXXX, 2021

_____
Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission

Table of Contents

SECTION 1 - PERMITTED EMISSION SOURCES AND ASSOCIATED AIR POLLUTION CONTROL DEVICES AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5, 13	FR-1	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 1 (20-ton design capacity and 16 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-2	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 1 (10-ton design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-4	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 2 (40-ton design capacity and 25.5 million Btu per hour heat input capacity)	IN-2	afterburners (2.5 million Btu per hour heat input capacity)
5, 13	FR-5	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 2 (15.2-ton design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-6	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 3 (30-ton design capacity and 16 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-7	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 3 (10-ton design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-8	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 4 (10-ton design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-9	one natural gas-fired melt furnace equipped with low-NOx burners (50-ton design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-10	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40-ton design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-11	one natural gas-fired aluminum melt furnace equipped with low-NOx burners (50-ton design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-12	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40-ton design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-13	one natural gas-fired aluminum melt furnace equipped with low-NOx burners (50-ton design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-14	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40-ton design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5, 13	FF-1 through FF-6	six natural gas-fired coil anneal furnaces (3.3 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-10 and FF-11	two natural gas-fired coil anneal furnaces (3 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-20	one natural gas-fired coil anneal furnace (13.5 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FF-22 and FF-23	two natural gas-fired coil anneal furnaces (18 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-24 through FF-26	three natural gas-fired coil anneal furnaces (18 million Btu per hour heat input capacity, each)	N/A	N/A
9, 13	RM-1, RM-2, and RM-3	three cold rolling mills for aluminum	RM-1ME, RM-2ME, RM-3MEN, RM-3MES	four oil mist eliminators
9, 13	RM-4 and RM-5 **BACT**	two cold rolling mills for aluminum	RM-4ME, RM-5ME RM-4SS , RM-5SS	two oil mist eliminators two stack skimmers
12, 13	MD-1 through MD-4	four in-line degassers/filters	N/A	N/A
12, 13	MD-5 through MD-7	three rotary in-line degassers	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Three natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnaces Nos. 1, 2 and 3 (ID Nos. FR-1, FR-4, and FR-6) with associated afterburners (ID No. IN-2) installed on FR-4

Three natural gas-fired aluminum melt furnaces equipped with low-NOx burners (ID Nos. FR-9, FR-11, and FR-13)

Four natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnaces Nos. 1, 2, 3, and 4 (ID Nos. FR-2, FR-5, FR-7, and FR-8)

Three natural gas-fired aluminum holding furnaces equipped with low-NOx burners (ID Nos. FR-10, FR-12, and FR-14)

Fourteen natural gas-fired coil anneal furnaces (ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	0.36 pounds per million Btu, each **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22)** 0.34 pounds per million Btu **(ID No. FF-23)** 0.33 pounds per million Btu **(ID No. FF-24)** 0.30 pounds per million Btu each **(ID Nos. FF-25 and FF-26)**	15A NCAC 02D .0503
Particulate Matter	$E = 4.10 \times P^{0.67}$ for $P \leq 30$ tons per hour, or $E = 55.0 \times P^{0.11} - 40$ for $P > 30$ tons per hour Where: E = allowable emission rate in pound per hour P = process weight rate in tons per hour **(ID Nos. FR-1, FR-2, and FR-4 through FR-14)**	15A NCAC 02D .0515
Sulfur Dioxide	2.3 pounds per million Btu heat input **(ID Nos. FR-1, FR-2, FR-4 through FR14, FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26)**	15A NCAC 02D .0516
	Spent rolling oil firing - 1.0% sulfur by weight **(ID Nos. FR-1, FR-2, and FR-4 through FR-8)**	
Visible Emissions	40 percent opacity **(ID Nos. FF-1 through FF-6, FF-20, FR-1, and FR-2)**	15A NCAC 02D .0521
	20 percent opacity **(ID Nos. FF-10, FF-11, FF-22 through FF-26, and FR-4 through FR-14)**	15A NCAC 02D .0521
Volatile Organic Compounds	See Section 2.2 A.1.	15A NCAC 02D .0902 VOC RAC]
Volatile Organic Compounds	See Section 2.2 A.2.	15A NCAC 02D .0958
Toxic Air Pollutants	See Section 2.2 A.3. **State-enforceable only**	15A NCAC 02D .1100

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odorous Emissions	See Section 2.2 A.4. **State-enforceable only**	15A NCAC 02D .1806
Volatile Organic Compounds	See Section 2.2 A.5.	15A NCAC 02Q .0317 NAA NSR Avoidance
Hazardous Air Pollutants	See Section 2.2 A.6.	15A NCAC 02Q .0317 MACT Avoidance
Nitrogen Oxides	See Section 2.2 A.7.	15A NCAC 02Q .0317 RACT Avoidance
Toxic Air Pollutants	See Section 2.2 A.8. **State-enforceable only**	15A NCAC 02Q .0711

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas that are discharged from the coil anneal furnaces **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22)** into the atmosphere shall not exceed 0.36 pounds per million Btu heat input each.
b. Emissions of particulate matter from the combustion of natural gas that are discharged from the coil anneal furnace **(ID Nos. FF-23)** into the atmosphere shall not exceed 0.34 pounds per million Btu heat input.
c. Emissions of particulate matter from the combustion of natural gas that are discharged from the coil anneal furnace **(ID No. FF-24)** into the atmosphere shall not exceed 0.33 pounds per million Btu heat input.
d. Emissions of particulate matter from the combustion of natural gas that are discharged from the coil anneal furnaces **(ID Nos. FF-25 and FF-26)** into the atmosphere shall not exceed 0.30 pounds per million Btu heat input each.

Testing [15A NCAC 02Q .0508(f)]
e. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.1 A.1.a through d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]
f. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of natural gas in the coil anneal furnaces **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26).**

2. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from the melt furnaces **(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13),** and the holding furnaces **(ID Nos. FR-2, FR-5, FR-7, FR-8, FR-10, FR-12, and FR-14)** shall not exceed an allowable emission rate as calculated by the following equation:

$E = 4.10 \times P^{0.67}$ (for process rates less than or equal to 30 tons per hour), or
$E = 55.0 \times P^{0.11} - 40$ (for process rates greater than 30 tons per hour)

Where: E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]
b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate matter emissions from the firing of natural gas in these furnaces **(ID Nos. FR-1, FR-2, and FR-4 through FR-14)**, or from the firing of No. 2 fuel oil in these furnaces (**ID Nos. FR-1, FR-2, and FR-4 through FR-8)**.

3. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these combustion sources **(ID Nos. FR-1, FR-2, and FR-4 through FR-14, FF-1 through FF-6, FF-10, FF-11, FF-20, and F-22 through FF-26)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of natural gas or No. 2 fuel oil.

d. The maximum sulfur content of any spent rolling oil received and burned in any furnace shall not exceed 1.0 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the spent rolling oil exceeds this limit.

e. The Permittee shall collect and analyze one sample of spent rolling oil by December 30 of each calendar year in accordance with 15A NCAC 02D .0501(c)(4) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

f. The Permittee shall record in a logbook (written or electronic format) the amount of spent rolling oil delivered to and combusted at the facility on an annual basis. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the records are not kept.

g. The Permittee shall submit a summary report of the spent rolling oil test results, postmarked on or before January 30 of each calendar year. The Permittee shall include in the report the total gallons of spent rolling oil combusted at the facility for the previous 12 months. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the emission sources **(ID Nos. FF-1 through FF-6, FF-20, FR-1, and FR-2)** shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

b. Visible emissions from the emission sources **(ID Nos. FF-10, FF-11, FF-22 through FF-26, and FR-4 through FR-14)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 A.4.a and b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

d. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas or No. 2 fuel oil in these sources **(ID Nos. FR-9 through FR-14, FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26)**.

e. To ensure compliance when firing spent rolling oil, once a day, the Permittee shall observe the emission points of these sources **(ID Nos. FR-1, FR-2, FR-4 through FR-8)**, when operating, for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this

requirement. The Permittee shall be allowed three (3) days of absent observations per semiannual period. If visible emissions from these sources **(ID Nos. FR-1, FR-2, FR-4 through FR-8)** are observed to be above normal, the Permittee shall either:

i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.4.a or b above.

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required, if the above-normal emissions are not corrected within the monitoring period, or the percent opacity demonstration cannot be made.

f. Visible emissions from the aluminum melt furnace No. 2 **(ID No. FR-4)** shall be controlled by afterburners **(ID No. IN-2)** when burning natural gas, No. 2 fuel oil, or spent rolling oil. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include the monthly external inspection of the ductwork and afterburners noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the ductwork, fume incinerator, or afterburners are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

g. The results of the visible emission monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.
h. The results of inspection and maintenance for the afterburners shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection; and
   iii. the results of maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

i. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
j. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.4.d through h abovepostmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

B. Three cold rolling mills (ID Nos. RM-1, RM-2, and RM-3) with associated mist eliminators (ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES)

Two cold rolling mills (ID Nos. RM-4 and RM-5) with associated mist eliminators (ID Nos. RM-4ME and RM-5ME) and stack skimmers (ID Nos. RM-4SS and RM-5SS)

The following table provides a summary of limits and standards for the emission sources described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible Emissions	40 percent opacity **(ID Nos. RM-1, RM-2, and RM-3)**	15A NCAC 02D .0521
	20 percent opacity **(ID Nos. RM-4 and RM-5~~)~~**	15A NCAC 02D .0521
Volatile Organic Compounds	Work practice requirements as specified in Section 2.1 B.2 **(ID Nos. RM-4 and RM-5)**	15A NCAC 02D .0530
Volatile Organic Compounds	See Section 2.1 B.3. **(ID Nos. RM-1 through RM-5)**	15A NCAC 02D .0614
Volatile Organic Compounds	See Section 2.2 A.1.	15A NCAC 02D .0902 VOC RACT
Volatile Organic Compounds	See Section 2.2 A.2.	15A NCAC 02D .0958
Odorous Emissions	See Section 2.2 A.4. **State-enforceable only**	15A NCAC 02D .1806
Volatile Organic Compounds	See Section 2.2 A.5.	15A NCAC 02Q .0317 NAA NSR Avoidance

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the rolling mills **(ID Nos. RM-1, RM-2, and RM-3)** shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

b. Visible emissions from the rolling mills **(ID Nos. RM-4 and RM-5)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 B.1.a or b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

d. To ensure compliance, once a week, the Permittee shall observe the emission points of these sources **(ID Nos. RM-1 through RM-5)**, when operating, for any visible emissions above normal. The weekly observations must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from the are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.1.a or b above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

e. Visible emissions from the rolling mills shall be controlled by the associated mist eliminators **(ID Nos. RM-1ME, RM-2ME, RM-3MEN, RM-3MES, RM-4ME, and RM-5ME)** and stack skimmers **(ID Nos. RM-4SS and RM-**

5SS). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include a monthly external inspection of the ductwork, mist eliminators, and stack skimmers, noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the ductwork, mist eliminators, or stack skimmers are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

f. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions;
   iii. the results of any corrective actions performed; and
   iv. the results of maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

g. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
h. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section(s) 2.1 B.1.d through f above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. The following Best Available Control Technology (BACT) shall be implemented:

Emission Source	Pollutant	BACT	
		Emission Limit	Control Technology
Two aluminum rolling mills **(ID Nos. RM-4 and RM-5)**	VOC	-	Mist eliminator and stack skimmer, and use of rolling oil consisting of 98% saturated aliphatic hydrocarbons

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

b. The Permittee shall perform inspection and maintenance on mist eliminators **(ID Nos. RM-4ME and RM-5ME)**, and keep records as per Section 2.1 B.1.e and f above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if inspection and maintenance requirements are not met.
c. The Permittee shall keep records for each shipment of rolling oil received documenting the amount of saturated aliphatic hydrocarbons. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained or if the amount of saturated aliphatic hydrocarbons in any shipment of rolling oil received is less than 98 percent.

Reporting [15A NCAC 02Q .0508(f)]

d. The Permittee shall comply with the reporting requirements for inspection and maintenance performed on mist eliminators **(ID Nos. RM-4ME and RM-5ME)** in Section 2.1 B.1.g above, to ensure compliance with 15A NCAC 02D .0530.
e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 B.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. The summary report shall include the amount of saturated aliphatic hydrocarbons in rolling oil received.

3. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

a. Per 40 CFR Part 64 and 15A NCAC 02D .0614, the Permittee shall comply with the following compliance assurance monitoring (CAM) requirements to ensure that the aluminum rolling mills **(ID Nos. RM-1 through RM5)** comply with the emission limits of 15A NCAC 02D .0530 and .0902.

Background

b. Emission Unit(s).
   i. Description: Five aluminum rolling mills
   ii. Identification: **ID Nos. RM-1 through RM5**

c. Applicable Regulation, Emission Limit, and Monitoring Requirements
   i. Regulations:
      (A) 15A NCAC 02D .0530 – BACT for VOC (**ID Nos. RM-4 and RM5)**
      (B) 15A NCAC 02D .0902(f) – RACT for VOC (**ID Nos. RM-1 through RM5)**
   ii. Emission limits: Not applicable
   iii. Control Technology: Mist eliminators **(ID Nos. RM-1ME, RM-2ME, RM-3MEN, RM-3MES, RM-4ME, and RM-5ME)**

Monitoring Approach

d. The key elements of the monitoring approach for volatile organic compounds, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table:

Measure	Indicator	Indicator
I. Indicator	Visible emissions	Amperage load on drive motors of each mist eliminator
Measurement Approach	Visible emissions from the mist eliminator system will be observed daily using EPA Reference Method 22-like procedures.	The amperage is measured weekly by opening-up the monitoring device and clamping directly to the electrical line..
II. Indicator Range	An excursion is defined as the presence of visible emissions. Excursion triggers an inspection, corrective action, and a reporting requirement.	The amperage load on drive motors of each mist eliminator shall be within the following operating ranges: RM-1ME: 74.8 to171.3 amperes RM-2ME: 35.6 to 102.3 amperes RM-3MEN: 15.9 to 36.6 amperes RM-3MES: 15 to 34.5 amperes RM-4ME: 47.2 to 135.7 amperes RM-5ME: 36.8 to 105.8 amperes An excursion occurs when the amperage load for any drive motor falls outside the indicated range above. The excursion triggers corrective action and reporting requirement.
Quality Improvement Plan (QIP) Threshold	The QIP threshold is five excursions in a six-month reporting period.	The QIP threshold is five excursions in a six-month reporting period.

Measure	Indicator	Indicator
III. Performance Criteria		
A. Data Representativeness	Visible emissions shall be observed at the emissions point (mist eliminator system exhaust).	Measurements are being made on the drive motor for each mist eliminator.
B. Verification of Operational Status	Not applicable.	Not applicable.
C. Quality Assurance/Quality Control Practices	The observer shall be familiar with EPA Reference Method 22 and follow Method 22-like procedures.	The amperage monitors shall be operated amd maintained as per manufacture's recommendation. If the amperage load on the drive motor is outside the above normal operating range, the Permittee shall ensure that the interlock mechanism of the mist eliminator automatically (without manual input) shuts down the associated aluminum rolling mill.
D. Monitoring Frequency	A six-minute Method 22-like observation is performed daily, when operating.	The amperage load is measured weekly.
E. Data Collection Procedures	The visible emissions observation is recorded by the observer.	The amperage load is manually recorded.
F. Averaging Periods	Not applicable.	Not applicable..

Recordkeeping [15A NCAC 02Q .0508(f)]

e. The Permittee shall keep records for the following:
   i. measurements of the amperage load on drive motors of each mist eliminator,
   ii. the duration and cause of any excursion or exceedance of the amperage loads, along with the corrective actions taken,
   iii. any maintenance performed on the drive motors and mist eliminators, as per manufacturer's recommendation,
   iv. any actions taken to implement a QIP, and
   v. each visible emissions observation, and any corrective actions taken in response to an escursion.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0614 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f) and 40 CFR 64.9(a)]

f. The Permittee shall submit a summary report of all monitoring activities given in Section 2.1 B.3.d above, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. In addition, the summary report shall contain the following information, as applicable:
   i. Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
   ii. Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
   iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8.

Upon completion of a QIP, the Permittee shall include, in the next summary report, documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances.

C. Four in-line degassers/filters (ID Nos. MD-1 through MD-4)

Three rotary in-line degassers (ID Nos. MD-5 through MD-7)

The following table provides a summary of limits and standards for the emission sources described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible Emissions	20 percent opacity **(ID Nos. MD-1 through MD-7)**	15A NCAC 02D .0521
Toxic Air Pollutants	See Section 2.2 A.3. **State-enforceable only**	15A NCAC 02D .1100
Odorous Emissions	See Section 2.2 A.4. **State-enforceable only**	15A NCAC 02D .1806
Toxic Air Pollutants	Section 2.2 A.8. **State-enforceable only**	15A NCAC 02Q .0711

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the in-line degassers/filters **(ID Nos. MD-1 through MD-4)** and the rotary in-line degassers **(ID Nos. MD-5 through MD-7)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

c. To ensure compliance, once a week, the Permittee shall observe the emission points of these sources **(ID Nos. MD-1 through MD-7)**, when operating, for any visible emissions above normal. The weekly observations must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from the sources are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.1.a. above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required weekly observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

Recordkeeping [15A NCAC 02Q .0508(f)]

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section(s) 2.1 C.1.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period

between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide

The following table provides a summary of facility-wide limits and standards.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	See Section 2.2 A.1. **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22 through FF-26, and RM-1 through RM-5**)	15A NCAC 02D .0902(f) VOC RACT
Volatile Organic Compounds	See Section 2.2 A.2. **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22 through FF-26, RM-1 through RM5, FR-1, FR-2, and FR-4 through FR-14)**	15A NCAC 02D .0958
Toxic Air Pollutants	See Section 2.2 A.3. **State-enforceable only (ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1 through MD-7)**	15A NCAC 02D .1100
Odorous Emissions	See Section 2.2 A.4. **State-enforceable only (ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22 through FF-26, RM-1 through RM5, FR-1, FR-2, FR-4 through FR-14, and MD-1 through MD-7)**	15A NCAC 02D .1806
Volatile Organic Compounds	See Section 2.2 A.5. **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22 through FF-26, RM-1 through RM5, FR-1, FR-2, and FR-4 through FR-14)**	15A NCAC 02Q .0317 NAA NSR Avoidance]
Hazardous Air Pollutants	See Section 2.2 A.6. **(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13)**	15A NCAC 02Q .0317 MACT Avoidance
Nitrogen Oxides	See Section 2.2 A.7. **(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22 through FF-26, FR-1, FR-2, and FR-4 through FR-14)**	15A NCAC 02Q .0317 RACT Avoidance]
Toxic Air Pollutants	See Section 2.2 A.8. **State-enforceable only (ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1 through MD-7)**	15A NCAC 02Q .0711

1. 15A NCAC 02D .0902(f): REASONABLY AVAILABLE CONTROL TECHNOLOGY FOR VOC

a. The following Reasonably Available Control Technology (RACT) limits shall not be exceeded:

Emission Source	Pollutant	RACT	
		Emission Limit (tons/yr)	Control Technology
Aluminum rolling mills **(ID Nos. RM-1 through RM-5**)	VOC	--	mist eliminator and stack skimmer, and use of rolling oil consisting of 98% saturated aliphatic hydrocarbons
Anneal Furnaces **(ID Nos. FF-1 through FF-6)**	VOC	1.66 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons
Anneal Furnaces **(ID Nos. FF-10 and FF-11)**	VOC	1.66 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons
Anneal Furnace **(ID No. FF-20~~)~~**	VOC	6.93	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons

Emission Source	Pollutant	RACT	
		Emission Limit (tons/yr)	Control Technology
Anneal Furnaces **(ID Nos. FF-22 through FF-26)**	VOC	9.42 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f).

Monitoring/Recordkeeping [15A NCAC 02D .0903]

c. For aluminum rolling mills **(ID Nos. RM-4 and RM-5)**, monitoring/recordkeeping requirements in Section 2.1 B.2.c and d shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f). If the requirements of Section 2.1 B.2.c and d are not complied with, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f).

d. For aluminum rolling mills **(ID Nos. RM-1 through RM-3)**, the Permittee shall perform inspection and maintenance on mist eliminators **(ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES)**, and keep records as per Section 2.1 B.1.e and f above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f) if requirements of Section 2.1 B.1.e and f are not complied with.

e. For aluminum rolling mills **(ID Nos. RM-1 through RM-3)**, the Permittee shall keep records for each shipment of rolling oil received documenting the amount of saturated aliphatic hydrocarbons. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f) if these records are not maintained or if the amount of saturated aliphatic hydrocarbons in any shipment of rolling oil received is less than 98 percent.

Reporting [15A NCAC 02D .0903]

f. Reporting requirements for mist eliminators **(ID Nos. RM-4ME and RM-5ME)** in Section 2.1 B.2.e and f shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f).

g. Reporting requirements for mist eliminators **(ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES)** in Section 2.1 B.1.g, shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f).

h. For aluminum rolling mills **(ID Nos. RM-1 through RM-3)**, the Permittee shall submit a summary report consisting of the amount of saturated aliphatic hydrocarbons in rolling oil received postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

a. For all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture VOCs, or emit VOCs as a product of chemical reactions, the Permittee shall:
   i. store all material, including waste material, containing VOCs in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
   ii. clean up spills of VOCs as soon as possible following proper safety procedures,
   iii. store wipe rags containing VOCs in closed containers,
   iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with VOCs,
   v. transfer solvents containing VOCs used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
   vi. clean mixing, blending, and manufacturing vats and containers containing VOCs by adding cleaning solvent and closing the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act.

b. When cleaning parts with a solvent containing a VOC, the Permittee shall:
   i. flush parts in the freeboard area,
   ii. take precautions to reduce the pooling of solvent on and in the parts,
   iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,

iv. not fill cleaning machines above the fill line,
v. not agitate solvent to the point of causing splashing.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. To ensure compliance with Sections 2.2 A.1.a and b above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing VOCs. The inspections shall be conducted during normal operations. If the required inspections are not conducted the permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each inspection; and
   ii. the results of each inspection noting whether or not noncompliant conditions were observed.

   If the required records are not maintained the permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.2 A.1.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

STATE-ENFORCEABLE ONLY

3. 15A NCAC 02D .1100 CONTROL OF TOXIC AIR POLLUTANTS

a. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved applications (Nos. 8000057.06A and 8000057.14A) for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Emission Sources	Toxic Air Pollutants	Emission Limits
Melt and Holding Furnaces **(ID Nos. FR-1, FR-2, and FR-4 through FR-14)**	Arsenic and inorganic arsenic compounds	1.84 lbs/yr
	Benzene	11.19 lbs/yr
	Beryllium	1.4 lbs/yr
	Cadmium	1.4 lbs/yr
	Bioavailable chromate pigments as chromium (VI) equivalent	1.4 lbs/yr
	Formaldehyde	0.0444 lb/hr
Melt and Holding Furnaces, and Degassers **(ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1 through MD-7)**	Chlorine	0.11 lb/hr 2.67 lb/day
	Hydrogen Chloride	2.01 lb/hr

b. The Permittee has submitted toxic air pollutant dispersion modeling analyses dated November 27, 2007 and June 18, 2014 for the facility's toxic air pollutant emissions as listed in the above table. The modeling analyses were reviewed and approved by the Air Quality Analysis Branch (AQAB) on December 14, 2007 and July 15, 2014, respectively. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analysis and should reflect any changes from the original analysis submittal as outlined in the AQAB review memo.

c. The Permittee is allowed to use spent rolling oil in sources **(ID Nos. FR-1, FR-2, and FR-4 through FR-8)** as follows:

i. **Specifications** - The spent rolling oil shall be equivalent to unadulterated fossil fuel by meeting the following criteria:

Constituent/Property	Allowable Level
Arsenic	1 ppm maximum
Cadmium	2 ppm maximum
Chromium	5 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	100 F minimum
Ash	1.0 % maximum

Testing Requirements

ii. The Permittee shall collect and analyze a sample of the spent rolling oil by December 30 of each calendar year. Each representative sample shall be tested for the constituents/properties as listed in Section 2.2 A.8.b.i above.

Monitoring / Recordkeeping [15A NCAC 02D .1105]

iii. The Permittee is responsible for ensuring that the spent rolling oil meets the approved criteria for unadulterated fuel. The Permittee is held responsible for any discrepancies discovered by DAQ as a result of any sampling and analysis of the spent rolling oil.

iv. The Permittee shall maintain at the facility for a minimum of five years, and shall make available to representatives of the DAQ upon request, accurate records of the following:
(A) the actual amount of spent rolling oil delivered to, and fired at the facility on an annual basis.
(B) the results of any analytical testing of the spent rolling oil as it is sampled and tested by the supplier.

v. The Permittee shall record monthly the emission rates of bioavailable chromate pigments as chromium (vi) equivalent.

Reporting [15A NCAC 02D .1105]

vi. Within 30 days after each calendar year, the Permittee shall submit in writing to the Regional Supervisor, DAQ, the following:
(A) a summary of the results of the analytical testing for the previous 12 months.
(B) the total gallons of spent rolling oil fired at the facility for the previous 12 months.

vi. Within 30 days of a written request from the DAQ, the Permittee shall submit a summary report of and monthly emission rates of bioavailable chromate pigments as chromium (vi) equivalent.

STATE-ENFORCEABLE ONLY

4. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

5. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .0531: SOURCES IN NONATTAINMENT AREAS

a. In order to avoid applicability of 15A NCAC 02D .0531(f), volatile organic compound (VOC) emissions from the facility-wide sources shall be less than 1,486 tons per consecutive 12-month period.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in Section 2.2 A.5.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0531.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined as described below. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0531 if the amounts of VOC containing materials or the VOC emissions are not monitored and recorded.

i. Calculate the VOC emissions from the melt, holding, and anneal furnaces on a monthly basis according to the following formula:

$$VOC = \sum_{i=1}^{n} 0.34A_i + \sum_{j=1}^{m} 5.5B_j$$

Where,

VOC = Total VOC emissions from the melt, holding, and anneal furnaces for a given month, in tons per month.

A_i = No. 2 fuel oil usage in gallons per month for each melt or holding furnace *i*, if it burned this fuel in a given month.

B_j = natural gas usage in standard cubic feet (scf) per month for each melt, holding, or anneal furnace *j*, if it burned this fuel in a given month.

n = total number of melt or holding furnaces burning No. 2 fuel oil in a given month.

m = total number of melt, holding, and anneal furnaces burning natural gas in a given month.

0.34 = VOC emission factor for the melt and anneal furnaces, in pounds VOC per thousand gallons of No. 2 fuel oil

5.5 = VOC emission factor for the melt, holding, and anneal furnaces, in pounds VOC per million scf

ii. Calculate the VOC emissions (due to volatilization of rolling oil) for each aluminum rolling mill for each month using the mass balance approach as prescribed here: total quantity of rolling oil entering the given rolling mill - total waste oil transferred off-site from a given rolling mill.

iii. Calculate the VOC emissions (due to volatilization of rolling oil) for each anneal furnace for each month on a monthly basis according to the following formula:

$$VOC = \left(\frac{\sum_{i=1}^{n} 0.0007C_i}{2000}\right)$$

Where,

VOC = total VOC emissions due to volatilization of rolling oil from all anneal furnaces, in tons per month

C_i = amount of aluminum annealed in a given month for each anneal furnace *i*, in pounds.

n = total number of anneal furnaces in use for a given month.

0.0007 =VOC emission factor for rolling oil volatilization (7 pounds of VOC per 10,000 pounds of annealed aluminum)

2000 = Conversion factor (2000 lbs per ton)

Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0531 if these records are not kept..

Reporting [15A NCAC 02Q .0508(f)]

d. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities given in Section 2.2 A.5.c above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the monthly VOC emissions for the previous 17 months for facility-wide sources. The emissions must be calculated for each of the 12-month periods over the previous 17 months. All instances of deviations from the requirements of this permit must be clearly identified.

**6. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY [40 CFR Part 63 SUBPART RRR]**

a. In order to avoid applicability of 15A NCAC 02D .1111 (40 CFR Part 63, Subpart RRR "National Emission Standards for Secondary Aluminum Production"), the Permittee shall limit the aluminum raw materials for its melt furnaces **(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13)** to only clean charge, customer returns, or internal scrap, and shall not operate sweat furnaces, thermal chip dryers, scrap dryers/delacquering kilns/decorating kilns [40 CFR 63.1500(a) and .1503].

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

b. The Permittee shall maintain records consisting of types of raw materials processed in the melt furnaces **(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13)** and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .1111 if these records are not maintained or the types of raw materials are not monitored.

c. The Permittee shall submit a statement signed by the responsible official that only clean charge, customer return, and internal scrap are used as aluminum raw materials for melt furnaces **(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13)**, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**7. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .1400: REASONABLY AVAILABLE CONTROL TECHNOLOGY FOR NITROGEN OXIDES**

a. In order to avoid applicability of 15A NCAC 02D .1402(d), nitrogen oxides (NOx) emissions from the facility-wide sources shall be less than 100 tons per consecutive 12-month period and less than 560 lbs per calendar day beginning May 1 through September 30 of any year [15A NCAC 02D .1402(d)].

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in Section 2.2 A.7.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1402(d).

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. To ensure compliance with the emission limits specified in Section 2.2 A.7.a. above, the Permittee shall conduct the following monitoring and recordkeeping:
   i. Calculate the NOx emissions from the melt, holding, and anneal furnaces on a monthly basis according to the following formula:

$$NOx\left(\frac{tons}{month}\right) = \left[\sum_{i=1}^{l} 0.02Am_i + \sum_{j=1}^{m} 0.0001Bm_j + \sum_{k=1}^{n} \frac{0.00005Cm_k}{2000}\right]$$

Where,

Am_i = No. 2 fuel oil usage in gallons per month for each melt or holding furnace, if it burned this fuel in a given month.

Bm_j = natural gas usage in standard cubic feet per month for each melt, holding, or anneal furnace [without low-NOx burners], if it burned this fuel in a given month.

Cm_k = natural gas usage in standard cubic feet per month for each melt, holding, or anneal furnace [with low-NOx burners], if it burned this fuel in a given month.

l = total number of melt or holding furnaces burning No. 2 fuel oil in a given month

m = total number of melt, holding, or anneal furnaces without low-NOx burners burning natural gas in a given month

n = total number of melt, holding, or anneal furnaces with low-NOx burners burning natural gas in a given month

0.02 = NOx emissions factor for melt or holding furnaces burning No. 2 fuel oil (20 pounds per 10^3 gallons)

0.0001 = NOx emissions factor for melt, holding, or anneal furnaces without low-NOx burners burning

natural gas (100 pounds per 10^6 scf)
0.00005 = NOx emissions factor for melt, holding, or anneal furnaces with low-NOx burners burning natural gas (50 pounds per 10^6 scf)
2000 = Conversion factor (2000 lbs per ton)

ii. Calculate the NOx emissions from the melt, holding, and anneal furnaces on a daily basis for each calendar day beginning May 1 through September 30 of each year according to the following formula:

NOx, lbs/day = [Σ {20 lb/10^3gallon x A_d gallon/day} + Σ {100 lb/10^6 scf x B_{1d} scf/day} + Σ {50 lb/10^6 scf x B_{2D} scf/day}]

$$NOx\left(\frac{lbs}{day}\right) = \left[\sum_{i=1}^{l} 0.02Ad_i + \sum_{j=1}^{m} 0.0001B1d_j + \sum_{k=1}^{n} \frac{0.00005Cm_k}{2000}\right]$$

Where,
Ad_i = No. 2 fuel oil usage in gallons per day for each melt or holding furnace, *i,* if it burned this fuel in a given day.
$B1d_j$ = natural gas usage in standard cubic feet per day for each melt, holding, or anneal furnace, *j*, [without low-NOx burners], if it burned this fuel in a given day.
$B2D_k$ = natural gas usage in standard cubic feet per day for each melt, holding, or anneal furnace [with low-NOx burners], *k*, if it burned this fuel in a given day.

l = total number of melt or holding furnaces burning No. 2 fuel oil in a given month
m = total number of melt, holding, or anneal furnaces without low-NOx burners burning natural gas in a given month
n = total number of melt, holding, or anneal furnaces with low-NOx burners burning natural gas in a given month
0.02 = NOx emissions factor for melt or holding furnaces burning No. 2 fuel oil (20 pounds per 10^3 gallons)
0.0001 = NOx emissions factor for melt, holding, or anneal furnaces without low-NOx burners burning natural gas (100 pounds per 10^6 scf)
0.00005 = NOx emissions factor for melt, holding, or anneal furnaces with low-NOx burners burning natural gas (50 pounds per 10^6 scf)
2000 = Conversion factor (2000 lbs per ton)

iii. NOx emissions calculations (daily and monthly) shall be recorded in an emissions logbook (written or electronic). In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the daily and monthly emissions logbook.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1402(d) if these records are not maintained or the actual daily emissions of NOx during the calendar day beginning May 1 through September 30 of any year exceed the limit in Section 2.2 A.7.a. above or the actual 12-month rolling average emissions of NOx exceed the limit in Section 2.2 A.7.a. above.

Reporting [15A NCAC 02Q .0508(f)]

d. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The monthly NOx emissions for the previous 17 months for facility-wide sources. The emissions must be calculated for each of the 12-month periods over the previous 17 months.
   ii. The highest daily NOx emissions during each month of the semiannual reporting period for facility-wide sources.
   All instances of deviations from the requirements of this permit must be clearly identified.

STATE-ENFORCEABLE ONLY

8. 15A NCAC 02Q .0711: EMISSION RATES REQUIRING A PERMIT

a. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any Toxic Air Pollutant (TAP) listed in 15A NCAC 02Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 02Q .0702 "Exemptions"), including fugitive emissions and

emission sources not otherwise required to have a permit, will not exceed its respective TAP permitting emission rates (TPER) listed in 15A NCAC 02Q .0711 without first obtaining an air permit to construct or operate.

b. PRIOR to exceeding any of the TPERs listed in 15A NCAC 02Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements found in 15A NCAC 02D .1100 "Control of Toxic Air Pollutants."

c. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 02Q .0711.

d. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 02Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Pollutant (CAS Number)	**TPERs Limitations**			
	Carcinogens (lbs/yr)	**Chronic Toxicants (lb/day)**	**Acute Systemic Toxicants (lb/hr)**	**Acute Irritants (lb/hr)**
benzo(a)pyrene (50-32-8)	2.2			
n-hexane (110-54-3)		23		
manganese and compounds		0.63		
mercury, aryl and inorganic compounds		0.013		
toluene (108-88-3)		98		14.4
xylene (1330-20-7)		57		16.4

SECTION 3 - GENERAL CONDITIONS (version 5.5, 08/25/2020)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]
The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]
In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]
The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY
The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**
1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**
1. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application;
   b. changes that modify equipment or processes; or
   c. changes in the quantity or quality of materials processed.

   If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
   a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
   b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
      i. the changes are not a modification under Title I of the Federal Clean Air Act;
      ii. the changes do not cause the allowable emissions under the permit to be exceeded;

iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
iv. the Permittee shall attach the notice to the relevant permit.

c. The written notification shall include:
i. a description of the change;
ii. the date on which the change will occur;
iii. any change in emissions; and
iv. any permit term or condition that is no longer applicable as a result of the change.

d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.

3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
a. the change affects only insignificant activities and the activities remain insignificant after the change; or
b. the change is not covered under any applicable requirement.

4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A **Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*

"Deviations" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
- name and location of the facility;
- nature and cause of the malfunction or breakdown;
- time when the malfunction or breakdown is first observed;
- expected duration; and
- estimated rate of emissions;

ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
   a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B **Other Requirements under 15A NCAC 02D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. **Emergency Provisions** [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
   a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
   b. the permitted facility was at the time being properly operated;
   c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
   d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility’s right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In

either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]
It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]
1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]
The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]
The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]
The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:
1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]
A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]
1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
   a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
   b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
   c. the applicable requirements under Title IV; or
   d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]
The Director may terminate, modify, or revoke and reissue this permit if:
1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]
Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]
This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]
1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
   a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
   b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
   c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
   d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

   Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or

interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]
1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]
The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]
Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]
A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]
The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History [**15A NCAC 02Q .0507(d)(3)]
The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]
1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]
If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) –** FEDERALLY-ENFORCEABLE ONLY
Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]
Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]
Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may

request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.

a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
   i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
   ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
   iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. **Reopening for Cause** [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
   a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
   b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
   c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
   d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. **Reporting Requirements for Non-Operating Equipment** [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. **Fugitive Dust Control Requirement** [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method

22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. **Specific Permit Modifications** [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
    a. a description of the change at the facility;
    b. the date on which the change will occur;
    c. any change in emissions; and
    d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA’s decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound