



North Carolina Department of Environment and Natural Resources

Division of Air Quality

Beverly Eaves Perdue
Governor

B. Keith Overcash, P.E.
Director

Dee Freeman
Secretary

MM DD, 2010

Ross C. Houser
Plant Manager
Saint-Gobain Containers, Inc.
2201 Firestone Parkway
Wilson, North Carolina 27893

Dear Mr. Houser:

**SUBJECT: Air Quality Permit No. 03713T23
Facility ID: 9800155
Saint-Gobain Containers, Inc.
Wilson
Wilson County
Fee Class: Title V**

In accordance with your completed Air Quality Permit Application for the modification of a Title V permit received December 02, 2009, we are forwarding herewith Air Quality Permit No. 03713T23 to Saint-Gobain Containers, Inc. 2201 Firestone Parkway, Wilson, 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 2Q .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.**

The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the air emission source (ID No. GF-1) on or before 12 months after commencing operation.

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.

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, North Carolina 27604
Phone: 919-715-6235 / FAX 919-733-5317 / Internet: www.ncair.org

One
North Carolina
Naturally

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 GS 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 GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from MM DD, 2010 until May 31, 2012, 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 Joseph Voelker, P.E. at (919) 715-7218.

Sincerely yours,

Donald R. van der Vaart, Ph.D., P.E.,
Chief

Enclosure

c: Gregg Worley, EPA Region 4
Raleigh Regional Office
Central Files

ATTACHMENT to cover letter to Air Quality Permit Number 03713T23

Table of Changes To Permit No. 03713T22

Existing Condition No.	New Condition No.	Changes
Cover Letter	Cover Letter	<ul style="list-style-type: none"> • Used current shell language, updated permit numbers, dates, etc. • Removed application requirement for GF-2
Insignificant activities list	Insignificant activities list	Added sources IS-V-1, IS-V-2 and IS-MCB at the Permittee's request
Permit cover	Permit cover	Revised dates, permit numbers, etc using current shell standards
Equipment list	Equipment list	Removed footnote for application requirement for GF-2
	2.1.A.3	Revised the NSPS Subpart CC condition for GF-1 as follows:
e.	e.	Added a definition for a valid 3-hour block average opacity value
f.	NA	Removed existing paragraph f addressing O&M at all times per DAQ policy
g.	f.	Renumbered this condition and remaining conditions
i.	h.	Clarified definition for Percent Excess Emissions
j.	i., j. and k.	Revised recordkeeping requirements to make it more clear and consistent with NSPS recordkeeping requirements
k., l. and m.	l.	Revised reporting requirements to make it more clear and consistent with NSPS reporting requirements as well as a recently issued DAQ policy regarding facilities with COMS and NSPS affected facilities
2.1.A.4	NA	The PSD avoidance condition was removed as the facility has demonstrated compliance with it for greater than 5 years (current DAQ policy)
2.1.A.5.e.	2.1.A.4.e.	Revised the reporting requirement to account for the renumbering in condition 2.1.A.3.
2.1.A.6.	2.1.A.5.	Revised numbering to account for removed 2.1.A.4
2.1.A.7.	2.1.A.6.	Revised numbering to account for removed 2.1.A.4
	2.1.B.3	Revised the NSPS Subpart CC condition for GF-2 as follows:
e.	e.	Added a definition for a valid 3-hour block average opacity value
f.	NA	Removed existing paragraph f addressing O&M at all times per DAQ policy
g.	f.	Renumbered this condition and remaining conditions
i.	h.	Clarified definition for Percent Excess Emissions
j.	i., j. and k.	Revised recordkeeping requirements to make it more clear and consistent with NSPS recordkeeping requirements
k., l. and m.	l.	Revised reporting requirements to make it more clear and consistent with NSPS reporting requirements as well as a recently issued DAQ policy regarding facilities with COMS and NSPS affected facilities
2.1.B.4	NA	<ul style="list-style-type: none"> • The PSD avoidance condition for GF-2 was removed based on the corrected application of actual to projected actual or potential test for PSD applicability. • The existing components of PSD avoidance (as included prior to permit no. T21) will not be reinstated as the facility has demonstrated compliance with it for greater than 5 years (current DAQ policy)
NA	2.1.B.5	• A 2D.0530(u) condition for PM2.5 was placed into the permit.
2.1.B.5.e.	2.1.B.4.e.	Revised the reporting requirement to account for the renumbering in condition 2.1.B.3.
2.1.B.6.	NA	The startup notification for GF-2 was removed as it is no longer necessary.

Existing Condition No.	New Condition No.	Changes
2.1.G	NA	Removed the bottle labeling operations at the request of the Permittee as they have been removed from the facility.

ATTACHMENT to cover letter to Air Quality Permit Number 03713T23

Table of Changes To Permit No. 03713T21

Condition No.	Changes
Cover Letter	<ul style="list-style-type: none"> • Used current shell language, updated permit numbers, dates, etc. • Included the language requiring a “Title V Air Quality Permit Application on or before 12 months after commencing operation”
Insignificant Activities list	<ul style="list-style-type: none"> ▪ Per current DAQ guidance changed: <div style="text-align: center;">ATTACHMENT to Permit No. 03713T22 to ATTACHMENT to cover letter to Air Quality Permit Number 03713T22</div> ▪ Revised IS-AI-3 to 4 million Btu per hour at the Permittees request
Permit cover	Revised dates, permit numbers, governor, secretary, etc using current shell standards
Permit page 3	The first two introductory paragraphs were removed as they have been deemed redundant and unnecessary
Equipment list	<ul style="list-style-type: none"> • Added the 2Q .0501(c) 2 modification footnote for GF-1. Reference for GF-2 was left in for reference purposes. • Revised the heat input value for the forehearths for GF-1 to 13.3.
2.1.A.6	Added a 2D0530(u) condition to address the use of projected actual emissions of PM10/PM2.5 to avoid PSD. Typical recordkeeping and reporting pursuant to the rule is required. A testing requirement is required for all PSD pollutants to verify the assumed emission factors in the analysis.
2.1.A.7	Added a start-up notification for the modified furnace GF-1
General Conditions	Revised to current revision 3.1.

ATTACHMENT to cover letter to Air Quality Permit Number 03713T23

Insignificant Activities under 15A NCAC 2Q .0503(8)

Emission Source ID No.	Emission Source Description
IS-PT1 to IS-PT4	Four propane storage tanks (30,000 gallons capacity each)
IS-FT1 and IS-FT2	Two No. 2 fuel oil storage tanks (500,000 gallons capacity each) for furnace back-up fuel
IS-LT1 and IS-LT2	Two lubrication oil storage tanks (10,000 gallons capacity each)
IS-DT1 and IS-DT2	Two diesel storage tanks (16,000 gallons capacity each)
IS-DT3 and IS-DT4	Two diesel storage tanks (500 gallons capacity each)
IS-DT5	One diesel storage tank (1,500 gallons capacity)
IS-DT6 and IS-DT7	Two diesel storage tanks (5,000 gallons capacity each)
IS-DT8	One diesel storage tank (12,000 gallon capacity)
IS-KT1 to IS-KT3	Three kerosene storage tanks (100 gallons, 225 gallons, and 350 gallons capacity)
IS-UT1	One used oil storage tank (8,000 gallon capacity)
IS-AL-1	Annealing Lehr- Shop No. 281 (2.58 million Btu per hour maximum heat input)
IS-AL-2	Annealing Lehr- Shop No. 282 (3.46 million Btu per hour maximum heat input)
IS-AL-3	Annealing Lehr- Shop No. 283 (4 million Btu per hour maximum heat input)
IS-AL-4	Annealing Lehr- Shop No. 284 (4.40 million Btu per hour maximum heat input)
IS-AL-5	Annealing Lehr- Shop No. 291 (3.40 million Btu per hour maximum heat input)
IS-AL-6	Annealing Lehr- Shop No. 292 (2.45 million Btu per hour maximum heat input)
IS-MGO	Mold grinding operations and metal working operations
IS-CT	Cooling towers
IS-LJ	LaserJet date coders
IS-CE	Cold End bottle sprays
IS-EG1 and IS-EG2	Two No. 2 fuel oil-fired emergency generators (4.1 million Btu per hour maximum heat input each)
IS-PW	Parts washing
IS-CDT	Caustic dip tank
IS-VJ	VideoJet date coding
IS-SB	Sand blasting operations
IS-OV	Mold preheat ovens
IS-CG	Carton glues
IS-SH/K	Kerosene-fired space heaters (1.74 million Btu per hour maximum heat input combined)
IS-SH/NG	Natural gas-fired space heaters (0.48 million Btu per hour maximum heat input)

Emission Source ID No.	Emission Source Description
	combined)
IS-EFP	Diesel Fuel-Fired Emergency Fire Pump
IS-V-1	Propane-fired vaporizer (0.91 million Btu per hour maximum heat input)
IS-V-2	Propane-fired vaporizer (0.91 million Btu per hour maximum heat input)
IS-MCB	Mold coating booth

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source 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 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit".

State of North Carolina,
Department of Environment,
and Natural Resources



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
03713T23	03713T22	MM DD, 2010	May 31, 2012

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 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, 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: **Saint-Gobain Containers, Inc.**

Facility ID: **9800155**

Facility Site Location: **2201 Firestone Parkway**
City, County, State, Zip: **Wilson, Wilson County, North Carolina, 27893**

Mailing Address: **2201 Firestone Parkway**
City, State, Zip: **Wilson, North Carolina, 27893**

Application Number: **9800155.09C**
Complete Application Date: **December 02, 2009**

Primary SIC Code: **3221**
Division of Air Quality, **Raleigh Regional Office**
Regional Office Address: **1628 Mail Service Center**
Raleigh, North Carolina 27699-1628

Permit issued this the DDth day of MM, 2010

Donald R. van der Vaart, Ph.D., P.E., Chief, Air Permits Section
By Authority of the Environmental Management Commission

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)

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ATTACHMENT

List of Acronyms

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:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
NSPS GF-1*	Glass melting furnace including the following equipment: (i) one natural gas/propane/No. 2 fuel oil/ No. 4 fuel oil and oxygen (oxy fuel) fired furnace with a 550 ton per day maximum glass pull rate (90 million Btu per hour maximum heat input capacity) (ii) one natural gas/propane-fired distributor (2.84 million Btu per hour maximum heat input capacity) (iii) five natural gas/propane-fired forehearths (13.3 million Btu per hour combined maximum heat input capacity)	n/a	n/a
NSPS GF-2	Glass melting furnace including the following equipment: (i) one natural gas/propane/No. 2 fuel oil/ No. 4 fuel oil and oxygen (oxy fuel) fired furnace with a 417 ton per day maximum glass pull rate (98 million Btu per hour maximum heat input capacity) (ii) one natural gas/propane-fired distributor (9.1 million Btu per hour maximum heat input capacity) (iii) three natural gas/propane-fired forehearths (5.3 million Btu per hour combined maximum heat input capacity)	n/a	n/a
ES-07 to ES-09	Three No. 2 fuel oil-fired peak shaving generators (1600 KW each)	n/a	n/a
ES-10 and ES-11	Two No. 2 fuel oil-fired peak shaving generators (1600 KW each)	n/a	n/a
RM-1 to RM-15	raw material storage, transfer, and batching operations	CD-1 to CD-9, CD-11 to CD-13, and CD-15 CD-10 and CD-14	Thirteen bagfilters (9 bags and a total of 65 square feet of filter area each) Two bagfilters (36 bags and a total of 382 square feet of filter area each)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
HET-1	Hot End treatment	n/a	n/a
MS-1	mold swabbing operation	n/a	n/a
BL-1 to BL-4	bottle labeling operations	n/a	n/a

* The emission source (ID Nos. GF-1) is listed as a 15A NCAC 2Q .0501(c)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

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. Glass Melting Furnace (ID No. GF-1) – Process consisting of a melter, a distributor, and five forehearths .

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 (melter, distributor and forehearths combined)	<i>for processes up to 30 tons per hour</i> E= 4.10 P^{0.67} where E = allowable emissions in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Particulate matter (filterable only from melter)	1.0 pounds per ton of glass pulled as defined in Section 2.1 A.3	15A NCAC 2D .0524 (40 CFR 60, Subpart CC)
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate matter (<10 μm), Particulate matter (<2.5 μm)	Recordkeeping and reporting of actual emissions	15A NCAC 2D .0530(u)
Odors	See Multiple Emissions Section 2.2 A - “ State-enforceable Only ”	15A NCAC 2D .1806

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from the glass melting furnace (melter, distributor, and forehearths combined, ID No. GF-1) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67}$$

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

Liquid and gaseous fuels, and stoichiometric combustion oxygen are not considered as part of the process weight.

Testing [15A NCAC 2D .2601]

- 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. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

- c. **Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]

No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas/propane/No. 2 fuel oil/No. 4 fuel oil in this glass melting furnace.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from the glass melting furnace (ID No. GF-1) 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. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas/propane/ No. 2 fuel oil/No. 4 fuel oil in this glass melting furnace.

3. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART CC

- a. The Permittee shall comply (at all times, including during periods of flue raking) with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart CC, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524, 40CFR 60.293(b)]

- b. The maximum filterable particulate matter emissions from the glass melting furnace (melter only, ID No. GF-1) shall not exceed **1.0 pound per ton of glass produced.**

Testing [15A NCAC 2D .2601, 40 CFR 60.293(f)]

- c. If emissions testing is required, the testing shall be performed in accordance 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in condition b., the Permittee shall be deemed in noncompliance with condition b. above.
- d. The Permittee shall conduct annual stack tests in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of such test are above the limit given in condition b., the Permittee shall be deemed in noncompliance with condition b. above.

Monitoring [15A NCAC 2Q .0508(f)]

- e. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications", 40 CFR 60.13 and 15A NCAC 2D .0613.

The Permittee shall be deemed in noncompliance with condition b. above if any three-hour block average opacity value, excluding periods of flue raking (not to exceed 144 hours per year), startup, shut down, malfunction from the glass melting furnace (melter only, ID No. GF-1) exceeds:

- i. **19.8 percent opacity** while firing No. 2/No. 4 fuel oil; or
- ii. **37.7 percent opacity** when firing natural gas/propane.

The three-hour block average opacity limit above was established by using the three 1-hour average opacity values from the compliance stack test and determining the 99% Upper Confidence Limit (UCL) of the three 1-hour averages. The resultant three-hour opacity UCL value was then pro-rated to the NSPS particulate limit (1.0 pounds of PM per ton of glass pulled), by using the average PM emission value determined during the compliance stack test.

A three-hour block average opacity value shall be calculated as the arithmetic average of any and all valid six-minute averages within the three-hour period. A three-hour period means a 180- minute period commencing at 12am, 3am, 6am, 9am, 12pm, 3pm, 6pm, and 9pm each day. Valid six-minute averages are calculated per 40 CFR 60.13.

The Permittee may at anytime, reestablish, through administratively amending this permit consistent with 15A NCAC 2Q .0500, the UCL values contained in condition 3.e. above.

Acceptable Operation and Maintenance [15A NCAC 2D .0524, 40CFR 60.293(c)(5)]

- f. For the purposes of 40 CFR 60.293(c)(5) and 60.7, Excess Emissions are defined as all of the 6-minute periods during which the average opacity of the emissions from the glass melting furnace (melter only, ID No. GF-1) exceed the 99% UCL values determined from a compliance stack test as provided in 40 CFR 60.293(e) as presented below:
 - i. **12.7 percent opacity** while firing No. 2/No. 4 fuel oil; or

- ii. **17.5 percent opacity** when firing natural gas/propane.

The Permittee may at anytime, consistent with the provisions of 40 CFR 60.293(e), reestablish, through administratively amending this permit consistent with 15A NCAC 2Q .0500, the UCL values contained in condition f. above.

Monitoring [15A NCAC 2Q .0508(f) 40CFR 60.293(c)]

- g. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications", 40 CFR 60.13 and 15A NCAC 2D .0613.
- h. The Permittee shall calculate the Percent Excess Emissions and the Percent COMS Downtime using the equations listed below:

Percent Excess Emissions (%EE):

$$\% EE = \frac{\text{Duration of Excess Emissions} - \text{Duration of Excess Emissions During StartUp / ShutDown / Malfunction}}{\text{Furnace Operating Time} - \text{Duration of StartUp / ShutDown / Malfunction}} * 100\%$$

Percent COMs Downtime (%CD):

$$\% CD = \frac{\text{COMs Downtime}}{\text{Furnace Operating Time}} * 100\%$$

Where:

- Excess Emissions* = *Defined in paragraph f.*
- Duration of Excess Emissions* = *Summation of the excess emissions in hours during the given calendar six-month period*
- Duration of Excess Emissions During StartUp/ ShutDown/ Malfunction* = *Summation of the excess emissions in hours occurring during all periods of startup/shutdown/malfunction during the given calendar six-month period*
- Furnace Operating Time** = *Summation of the operation time of the source in hours during the given calendar six-month period*
- Duration of StartUp/ ShutDown/ Malfunction* = *Summation of the operation time of the source in hours occurring during all periods of startup/shutdown/malfunction during the given calendar six-month period*
- COMs downtime*** = *Summation of time in hours during which the COMs is not operational and concurrent with the Furnace Operating Time during the given calendar six-month period*

* If the furnace operates less than 500 hours during any calendar six-month period, the Permittee may perform the above calculations using all of the operating data for the current calendar six-month period and the most recent data for the proceeding calendar six-month period until 500 hours of data are obtained. [N.C.G.S. 143-215.110]

** Quality assurance (QA) activities will be included in this calculation unless exempt by regulation or defined in an agency approved Quality Assurance (QA) Manual. The amount of exempt QA time will be reported in the report per condition k.

The Permittee shall be deemed in noncompliance with condition f. above if the Percent Excess Emissions from the glass melting furnace (melter only, ID No. GF-1) exceeds **2 percent** or if the Percent COMS Downtime exceeds **2 percent** in any calendar six-month period (January 1 through June 30 or July 1 through December

31).

Recordkeeping [15A NCAC 2Q .0508(f)]

- i. Pursuant to 40 CFR 60.7(b), the Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
- j. Pursuant to 40 CFR 60.7(f), the Permittee shall maintain records of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 Subpart A and Subpart CC recorded in a permanent form suitable for inspection. The records shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
- k. In addition to any other recordkeeping required by 40 CFR 60.7, the Permittee shall record and maintain records of:
 - i. Furnace operating time;
 - ii. Date, time and duration of the performance of flue raking operations; and
 - iii. Three-hour block average opacity values.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the recordkeeping requirements in conditions i. through k. are not met.

Reporting [15A NCAC 2Q .0508(f)]

- l. On a quarterly basis, the Permittee shall:
 - i. Submit a report containing Percent Excess Emissions, Percent COMs Downtime, and Furnace Operating Time, as defined in condition h. above and the date, time and duration of the performance of flue raking operations.
 - ii. pursuant to 40 CFR 60.293(c)(5) and 40 CFR 60.7(c), submit an excess emissions and monitoring system performance summary report. The report shall contain the information required per 40 CFR 60.7(c) and (d).
 - iii. submit a report of the three-hour block average opacity values, as defined in condition e., that exceed:
 - a. **19.8 percent opacity** while firing No. 2/No. 4 fuel oil; or
 - b. **37.7 percent opacity** when firing natural gas/propane.

The format for the report will be provided by the DAQ.

The quarterly reports, acceptable to the Regional Air Quality Supervisor, shall be postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 for the calendar year for the preceding three-month period between July and September.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the reporting requirements in condition l. are not met.

4. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the glass-melting furnace (from the melter, distributor, and forehearths, ID No. GF-1) shall not be more than **20 percent opacity** when averaged over a six-minute period. [15A NCAC 2D .0521(c)]
- b. For sources required to install, operate, and maintain continuous opacity monitoring systems (COMS), compliance with the 20 percent opacity limit shall be determined as follows:[15A NCAC 2D .0521(g)]
 - i. No more than four six-minute periods shall exceed the opacity standard in any one day; and

- ii. The percent of excess emissions (defined as the percentage of monitored operating time in a calendar quarter above the opacity limit) shall not exceed 0.8 percent of the total operating hours. If a source operates less than 500 hours during a calendar quarter, the percent of excess emissions shall be calculated by including hours operated immediately previous to this quarter until 500 operational hours are obtained.

Excess emissions during startup and shutdown shall be excluded from the determinations in paragraphs b.i. and b.ii. above, if the excess emissions are exempted according to the procedures set out in 2D .0535(g). Excess emissions during malfunctions shall be excluded from the determinations in paragraphs b.i. and b.ii. above, if the excess emissions are exempted according to the procedures set out in 2D .0535(c).

All periods of excess emissions shall be included in the determinations in paragraphs b.i. and b.ii above until such time that the excess emissions are exempted according to the procedures in 2D .0535.

Testing [15A NCAC 2D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity from the melter. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications" and 15A NCAC 2D .0613. No monitoring or recordkeeping requirements are required for the distributor and forehearths.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if the monitoring is not performed, if the monitored values exceed the limitations given in conditions a. and b. above, or if the records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit the COMS data in accordance with the reporting requirements given in condition **2.1.A.3.I.** (Subpart CC reporting requirements). All instances of excess emissions with respect to 15A NCAC 2D .0521 must be clearly identified.

5. 15A NCAC 2D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS

- a. The Permittee has used projected actual emissions to avoid applicability of Prevention of Significant Deterioration requirements for a project consisting of modifications to the forehearths associated with Furnace GF-1 (ID No. GF-1). This project also involves the modification of other ancillary equipment and is fully described in application no. **9800155.09B.**

In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the testing, record keeping and reporting requirements in conditions. b. through e. below.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall conduct source testing of the glass melting furnace GF-1 (melter only) for particulate matter (TSP) [filterable and condensable], particulate matter <10 µm (PM₁₀)[filterable and condensable], particulate matter <2.5µm (PM_{2.5}) [filterable and condensable], carbon monoxide, volatile organic compounds, nitrogen oxides, sulfur dioxide, sulfuric acid mist, fluorides and lead, in accordance with a testing protocol approved by the DAQ. Compliance with the PM₁₀ and/or PM_{2.5} test requirements may be satisfied by meeting the TSP and/or PM₁₀ testing requirements. The results of each test shall be used to derive emission factors in pounds of pollutant per ton of glass produced.

Initial testing shall be conducted within 60 days after achieving the maximum production rate of the glass furnace after modification as submitted in permit application no. **9800155.09B** but not later than 180 days after initial startup of the furnace after modification as submitted in permit application no. **9800155.09B**, unless an alternate date is approved by the DAQ. Subsequent testing shall be conducted as described in condition c.i. below.

- i. Testing shall be conducted for each fuel utilized upon its initial use after the modification has been completed once anticipated to be utilized more than 10% of the total operating time during any consecutive 12 month period. No initial testing is required for firing propane.

Recordkeeping [15A NCAC 2D .0530(u)]

- d. The Permittee shall maintain records of actual emissions for PM10/PM2.5 in tons per year on a calendar year basis for five years following the resumption of regular operations upon commencement of the modifications described in application no. **9800155.09B**

The Permittee shall make the information, documented and maintained in this condition d. available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

Reporting [15A NCAC 2D .0530(u)]

- e. The Permittee shall submit a report for PM10/PM2.5 emissions to the Director within 60 days after the end of each calendar year during which the records in condition d. must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).

STATE-ENFORCEABLE ONLY

6. **NOTIFICATION REQUIREMENT** - The Permittee shall notify in writing the Regional Supervisor of the actual beginning operation date of the furnace (**ID No. GF-1**) modified as described in application no. **9800155.09B**.

B. Glass Melting Furnace (ID No. GF-2) – Process consisting of a melter, a distributor, and three forehearths .

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 (melter, distributor and forehearths combined)	<i>for processes up to 30 tons per hour</i> E= 4.10 P^{0.67} where E = allowable emissions in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Particulate Matter (filterable from melter only)	1.0 pounds per ton of glass pulled as defined in Section 2.1. B.3	15A NCAC 2D .0524 (40 CFR 60, Subpart CC)
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate matter (<2.5 µm)	Recordkeeping and reporting of actual emissions	15A NCAC 2D .0530(u)
Odors	See Multiple Emissions Section 2.2 A State-enforceable Only	15A NCAC 2D .1806

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from the glass melting furnace (melter, distributor, and forehearths combined, ID No. GF-2) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour} \\ P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels, and stoichiometric combustion oxygen are not considered as part of the process weight.

Testing [15A NCAC 2D .2601]

- 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 B. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.
- c. **Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]
No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas/propane/No. 2 fuel oil/No. 4 fuel oil in this glass melting furnace.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from glass melting furnace (ID No. GF-2) 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. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas/propane/ No. 2 fuel oil/No. 4 fuel oil in the glass melting furnace.

3. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART CC

- a. The Permittee shall comply (at all times, including during periods of flue raking) with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart CC, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524, 40CFR 60.293(b)]

- b. The maximum filterable particulate matter emissions from the glass melting furnace (melter only, ID No. GF-2) shall not exceed **1.0 pound per ton of glass produced.**

Testing [15A NCAC 2D .2601, 40 CFR 60.293(f)]

- c. If emissions testing is required, the testing shall be performed in accordance 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in condition b., the Permittee shall be deemed in noncompliance with condition b. above.
- d. The Permittee shall conduct annual stack tests in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of such test are above the limit given in condition b., the Permittee shall be deemed in noncompliance with condition b. above.

Monitoring [15A NCAC 2Q .0508(f)]

- e. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications", 40 CFR 60.13 and 15A NCAC 2D .0613.

The Permittee shall be deemed in noncompliance with condition b. above if any three-hour block average opacity value, excluding periods of flue raking (not to exceed 144 hours per year), startup, shut down, malfunction from the glass melting furnace (melter only, ID No. GF-2) exceeds:

- i. **25.5 percent opacity** while firing No. 2/No. 4 fuel oil; or
- ii. **14.8 percent opacity** when firing natural gas/propane.

The three-hour block average opacity limit above was established by using the three 1-hour average opacity values from the compliance stack test and determining the 99% Upper Confidence Limit (UCL) of the three 1-hour averages. The resultant three-hour opacity UCL value was then pro-rated to the NSPS particulate limit (1.0 pounds of PM per ton of glass pulled), by using the average PM emission value determined during the compliance stack test.

A three-hour block average opacity value shall be calculated as the arithmetic average of any and all valid six-minute averages within the three-hour period. A three-hour period means a 180- minute period commencing at 12am, 3am, 6am, 9am, 12pm, 3pm, 6pm, and 9pm each day. Valid six-minute averages are calculated per 40 CFR 60.13.

The Permittee may at anytime, reestablish, through administratively amending this permit consistent with 15A NCAC 2Q .0500, the UCL values contained in condition 3.e. above.

Acceptable Operation and Maintenance [15A NCAC 2D .0524, 40CFR 60.11(d)]

- f. For the purposes of 40 CFR 60.293(c)(5) and 60.7, Excess Emissions are defined as all of the 6-minute periods during which the average opacity of the emissions from the glass melting furnace (melter only, ID No. GF-2) exceed the 99% UCL values determined from a compliance stack test as provided in 40 CFR 60.293(e) as presented below:
 - i. **14.1 percent opacity** while firing No. 2/No. 4 fuel oil; or

- ii. **8.5 percent opacity** when firing natural gas/propane.

The Permittee may at anytime, consistent with the provisions of 40 CFR 60.293(e), reestablish, through administratively amending this permit consistent with 15A NCAC 2Q .0500, the UCL value contained in condition 3.f above.

Monitoring [15A NCAC 2Q .0508(f) 40CFR 60.293(c)]

- g. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications", 40 CFR 60.13 and 15A NCAC 2D .0613.
- h. The Permittee shall calculate the Percent Excess Emissions and the Percent COMS Downtime using the equations listed below:

Percent Excess Emissions (%EE):

$$\% EE = \frac{\text{Duration of Excess Emissions} - \text{Duration of Excess Emissions During StartUp / ShutDown / Malfunction}}{\text{Furnace Operating Time} - \text{Duration of StartUp / ShutDown / Malfunction}} * 100\%$$

Percent COMs Downtime (%CD):

$$\% CD = \frac{\text{COMs Downtime}}{\text{Furnace Operating Time}} * 100\%$$

Where:

- Excess Emissions* = *Defined in paragraph f.*
- Duration of Excess Emissions* = *Summation of the excess emissions in hours during the given calendar six-month period*
- Duration of Excess Emissions During StartUp/ ShutDown/ Malfunction* = *Summation of the excess emissions in hours occurring during all periods of startup/shutdown/malfunction during the given calendar six-month period*
- Furnace Operating Time** = *Summation of the operation time of the source in hours during the given calendar six-month period*
- Duration of StartUp/ ShutDown/ Malfunction* = *Summation of the operation time of the source in hours occurring during all periods of startup/shutdown/malfunction during the given calendar six-month period*
- COMs downtime*** = *Summation of time in hours during which the COMs is not operational and concurrent with the Furnace Operating Time during the given calendar six-month period*

* If the furnace operates less than 500 hours during any calendar six-month period, the Permittee may perform the above calculations using all of the operating data for the current calendar six-month period and the most recent data for the proceeding calendar six-month period until 500 hours of data are obtained. [N.C.G.S. 143-215.110]

** Quality assurance (QA) activities will be included in this calculation unless exempt by regulation or defined in an agency approved Quality Assurance (QA) Manual. The amount of exempt QA time will be reported in the report per condition k.

The Permittee shall be deemed in noncompliance with condition f. above if the Percent Excess Emissions from the glass melting furnace (melter only, ID No. GF-2) exceeds **2 percent** or if the Percent COMS Downtime exceeds **2 percent** in any calendar six-month period (January 1 through June 30 or July 1 through December 31).

Recordkeeping [15A NCAC 2Q .0508(f)]

- i. Pursuant to 40 CFR 60.7(b), the Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
- j. Pursuant to 40 CFR 60.7(f), the Permittee shall maintain records of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 Subpart A and Subpart CC recorded in a permanent form suitable for inspection. The records shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
- k. In addition to any other recordkeeping required by 40 CFR 60.7, the Permittee shall record and maintain records of:
 - i. Furnace operating time;
 - ii. Date, time and duration of the performance of flue raking operations; and
 - iii. Three-hour block average opacity values.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the recordkeeping requirements in conditions i. through k. are not met.

Reporting [15A NCAC 2Q .0508(f)]

- l. On a quarterly basis, the Permittee shall:
 - i. Submit a report containing Percent Excess Emissions, Percent COMs Downtime, and Furnace Operating Time, as defined in condition h. above and the date, time and duration of the performance of flue raking operations.
 - ii. pursuant to 40 CFR 60.293(c)(5) and 40 CFR 60.7(c), submit an excess emissions and monitoring system performance summary report. The report shall contain the information required per 40 CFR 60.7(c) and (d).
 - iii. submit a report of the three-hour block average opacity values, as defined in condition e., that exceed:
 - a. **25.5 percent opacity** while firing No. 2/No. 4 fuel oil; or
 - b. **14.8 percent opacity** when firing natural gas/propane.

The format for the report will be provided by the DAQ.

The quarterly reports, acceptable to the Regional Air Quality Supervisor, shall be postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 for the calendar year for the preceding three-month period between July and September.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the reporting requirements in condition l. are not met.

4. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the glass-melting furnace (from the melter, distributor, and forehearths, ID No. GF-2) shall not be more than **20 percent opacity** when averaged over a six-minute period. [15A NCAC 2D .0521(c)]
- b. For sources required to install, operate, and maintain continuous opacity monitoring systems (COMS), compliance with the 20 percent opacity limit shall be determined as follows:[15A NCAC 2D .0521(g)]
 - i. No more than four six-minute periods shall exceed the opacity standard in any one day; and
 - ii. The percent of excess emissions (defined as the percentage of monitored operating time in a calendar quarter above the opacity limit) shall not exceed 0.8 percent of the total operating hours. If a source operates less than 500 hours during a calendar quarter, the percent of excess emissions shall be calculated by including hours operated immediately previous to this quarter until 500 operational hours are obtained.

Excess emissions during startup and shutdown shall be excluded from the determinations in paragraphs b.i. and b.ii. above, if the excess emissions are exempted according to the procedures set out in 2D .0535(g). Excess emissions during malfunctions shall be excluded from the determinations in paragraphs b.i. and b.ii. above, if the excess emissions are exempted according to the procedures set out in 2D .0535(c).

All periods of excess emissions shall be included in the determinations in paragraphs b.i. and b.ii above until such time that the excess emissions are exempted according to the procedures in 2D .0535.

Testing [15A NCAC 2D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity from the melter. The COMS shall be calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications" and 15A NCAC 2D .0613. No monitoring or recordkeeping requirements are required for the distributor and forehearths.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if the monitoring is not performed, if the monitored values exceed the limitations given in conditions a. and b. above, or if the records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit the COMS data in accordance with the reporting requirements given in condition **2.1.B.3.I.** (Subpart CC reporting requirements). All instances of excess emissions with respect to 15A NCAC 2D .0521 must be clearly identified.

5. 15A NCAC 2D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS

- a. The Permittee has used projected actual emissions to avoid applicability of Prevention of Significant Deterioration requirements for a project consisting of modifications to the furnace GF-2 (ID No. GF-2), associated components and ancillary equipment. This project is fully described in application nos. **9800155.08B ("Part I") and 9800155.09C ("Part II")**.

In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the testing, record keeping and reporting requirements in conditions. b. through f. below.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall conduct source testing of the glass melting

furnace GF-2 (melter only) for particulate matter (TSP) [filterable and condensable], particulate matter <10 µm (PM₁₀)[filterable and condensable], particulate matter <2.5µm (PM_{2.5}) [filterable and condensable], carbon monoxide, volatile organic compounds, nitrogen oxides, sulfur dioxide, sulfuric acid mist, fluorides and lead, in accordance with a testing protocol approved by the DAQ. Compliance with the PM₁₀ and/or PM_{2.5} test requirements may be satisfied by meeting the TSP and/or PM₁₀ testing requirements. The results of each test shall be used to derive emission factors in pounds of pollutant per ton of glass produced.

Initial test results were approved on February 2, 2010. Subsequent testing shall be conducted as described in condition c.i. below.

- i. Testing shall be conducted for each fuel utilized upon its initial use after the modification has been completed once anticipated to be utilized more than 10% of the total operating time during any consecutive 12 month period. No initial testing is required for firing propane.

Recordkeeping [15A NCAC 2D .0530(u)]

- d. The Permittee shall maintain records of actual emissions for PM_{2.5} in tons per year on a calendar year basis for five years following the resumption of regular operations upon commencement of the modifications described in application no. **9800155.09B.**
- e. The Permittee shall make the information, documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

Reporting [15A NCAC 2D .0530(u)]

- f. The Permittee shall submit a report for PM_{2.5} emissions to the Director within 60 days after the end of each calendar year during which the records in condition d. must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).

C. Three Peak Shaving Generators (ID Nos. ES-07, ES-08, ES-09)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Carbon monoxide	Less than 100 tons per 12 month period as defined in Section 2.1.C.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)
Nitrogen oxides	Less than 40 tons per 12 month period as defined in Section 2.1.C.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)
Sulfur dioxide	Less than 40 tons per 12 month period as defined in Section 2.1.C.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from the three peak shaving generators (ID Nos. ES-07, ES-08, and ES-09) 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. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and

General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil in these generators.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the three peak shaving generators (ID Nos. ES-07, ES-08, and ES-09) 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. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in these generators.

**3. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS
for 15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. To comply with this permit and avoid applicability of 15A NCAC 2D .0530 (g), "Prevention of Significant Deterioration," as requested by the Permittee, emissions from the three peak shaving generators (ID Nos. ES-07, ES-08, and ES-09) shall not exceed the following limitations:

Pollutant	Emissions Limitations
Carbon monoxide	100 tons per consecutive 12-month period
Nitrogen oxides	40 tons per consecutive 12-month period
Sulfur dioxide	40 tons per consecutive 12-month period

Additionally, the hours of operation of the generators shall not be more than **500 hours per consecutive 12-month period each or a total of 1500 hours for all three peak shaving generators combined.** [15A NCAC 2D .0530]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.3.a, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The Permittee shall measure and record (written or electronic format), on a monthly basis, the number of hours of operation for each generator and the amount of fuel burned. From this information and applying the latest published AP-42 emission factors, the Permittee shall calculate the actual nitrogen oxide emissions each month. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the hours of operation of the generators, the amount of fuel burned, or the nitrogen oxide emissions are not monitored.

Reporting [15A NCAC 2Q .0508(f)]

- d. The Permittee shall submit a semi-annual 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 nitrogen oxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
- ii. The monthly quantities of No. 2 fuel oil consumed for the previous 17 months; and
- iii. The monthly hours of operation for each generator over the previous 17 months. The hours of operation must be calculated for each of the 12-month periods over the previous 17 months.

D. Two Peak Shaving Generators (ID Nos. ES-10 and ES-11)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Sulfur dioxide	less than 40 tons per 12 month period as defined in Section 2.1.D.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)
Nitrogen oxides	less than 40 tons per 12 month period as defined in Section 2.1.D.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)
Carbon monoxide	less than 100 tons per 12 month period as defined in Section 2.1.D.3	15A NCAC 2Q .0317 (Avoidance of 15A NCAC 2D .0530)

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from the two peak shaving generators (ID Nos. ES-10 and ES-11) 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. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 D.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- a. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil in these generators.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the two peak shaving generators (ID Nos. ES-10 and ES-11) 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. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in these generators.

**3. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS
for 15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. To comply with this permit and avoid applicability of 15A NCAC 2D .0530 (g), “Prevention of Significant Deterioration,” as requested by the Permittee, emissions from the two peak shaving generators (ID Nos. ES-10 and ES-11) shall not exceed the following limitations:

Pollutant	Emissions Limitations
Carbon monoxide	100 tons per consecutive 12-month period
Nitrogen oxides	40 tons per consecutive 12-month period
Sulfur dioxide	40 tons per consecutive 12-month period

Additionally, the hours of operation of the generators shall not be more than **750 hours per consecutive 12-month period each or a total of 1500 hours for both peak shaving generators combined.** [15A NCAC 2D .0530]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.3.a, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The Permittee shall measure and record (written or electronic format), on a monthly basis, the number of hours of operation for each generator and the amount of fuel burned. From this information and applying the latest published AP-42 emission factors, the Permittee shall calculate the actual nitrogen oxide emissions each month. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the hours of operation of the generators, the amount of fuel burned, or the nitrogen oxide emissions are not monitored.

Reporting [15A NCAC 2Q .0508(f)]

- d. The Permittee shall submit a semi-annual 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 nitrogen oxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - ii. The monthly quantities of No. 2 fuel oil consumed for the previous 17 months; and
 - iii. The monthly hours of operation for each generator over the previous 17 months. The hours of operation must be calculated for each of the 12-month periods over the previous 17 months.

E. Raw Material Storage, Transfer and Batching Operations (ID No. RM-1 to RM-15) and Associated Bagfilters (ID Nos. CD-1 to CD-15)

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	<p>for processes up to 30 tons per hour $E = 4.10 P^{0.67}$</p> <p>for processes greater than to 30 tons per hour $E = 55.0 P^{0.11} - 40$</p> <p>where E = allowable emissions in pounds per hour P = process weight in tons per hour</p>	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from the raw material storage, transfer, and batching operations (ID Nos. RM-1 to RM-15) shall not exceed an allowable emission rate as calculated by the following equations: [15A NCAC 2D .0515(a)]

For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$

For process rates greater than 30 tons per hour: $E = 55 \times P^{0.11} - 40$

Where E = allowable emissions 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 2D .2601]

- b. If emission 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 E. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions from the raw material storage, transfer, and batching operations (ID Nos. RM-1 to RM-15) shall be controlled by the fifteen bagfilters (ID Nos. CD-1 to CD-15). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there is no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and bagfilters for leaks; and
 - ii. an annual internal inspection of the bagfilters' structural integrity.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bagfilters are not inspected and maintained.

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The results of inspections and maintenance 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;
- iii. the results of any maintenance performed on the bagfilters; and
- iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the bagfilters within 30 days of a written request by the DAQ.
- f. Permittee shall submit a summary report of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding six-month period between July and December and by 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 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the raw material storage, transfer, and batching operations (ID Nos. RM-1 to RM-15) 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. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .2601]

- b. If emission testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 E. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once every three months, the Permittee shall observe the emission points of these sources that exhaust outdoors for any visible emissions above normal. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practical 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 .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 E.2.a. above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

Recordkeeping [15A NCAC 2Q .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 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December, and by 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.

F. Hot End Treatment Hood (ID No. HET-1) and Mold Swabbing Operation (ID No. MS-1)

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	<p><i>for processes up to 30 tons per hour</i> E= 4.10 P^{0.67}</p> <p><i>for processes greater than to 30 tons per hour</i> E= 55.0 P^{0.11} - 40</p> <p>where E = allowable emissions in pounds per hour P = process weight in tons per hour</p>	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from the hot end treatment and the mold swabbing operation (ID Nos. HET-1 and MS-1) shall not exceed an allowable emission rate as calculated by the following equations: [15A NCAC 2D .0515(a)]

For process rates up to 30 tons per hour: **E = 4.10 x P^{0.67}**

For process rates greater than 30 tons per hour: **E= 55 x P^{0.11} - 40**

Where E = allowable emissions 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 2D .2601]

- b. If emission 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 F. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the hot end treatment and the mold swabbing operation (ID Nos. HET-1and MS-1).

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the hot end treatment and the mold swabbing operation (ID Nos. HET-1and MS-1) 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. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .2601]

- b. If emission testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 E. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the hot end treatment and the mold swabbing operation (ID Nos. HET-1 and MS-1).

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

A. Glass Melting Furnaces (ID Nos. GF-1 and GF-2) and Bottle Labeling Operations (ID Nos. BL-1, BL-2, BL-3, and BL-4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	Odorous emissions must be controlled “ State-enforceable Only ”	15 NCAC 2D .1806

STATE-ONLY REQUIREMENT

1. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

- a. 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.

B. Facility Wide Affected Sources including Bottle Labeling Operations (ID Nos. BL-1, BL-2, BL-3, and BL-4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work practice standards	15 NCAC 2D .0958

1. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 2D .0958, 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 volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
 - i. store all material, including waste material, containing volatile organic compounds 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 volatile organic compounds as soon as possible following proper safety procedures,
 - iii. store wipe rags containing volatile organic compounds in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - v. transfer solvents containing volatile organic compounds 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 volatile organic compounds by adding cleaning solvent and close 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. [15A NCAC 2D .0958(c)]

- b. When cleaning parts with a solvent containing a volatile organic compound, 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. [15A NCAC 2D .0958(d)]

SECTION 3 - GENERAL CONDITIONS (version 3.1)

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

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
 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 2Q .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 Environment and Natural Resources upon request.
- C. **Severability Clause** [15A NCAC 2Q .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 2Q .0507(e) and 2Q .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 2Q .0508(i)(2)]
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 2Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 2Q .0524 and 2Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 2Q.0524 and 2Q .0505.
3. Minor Permit Modifications [15A NCAC 2Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 2Q .0515.
4. Significant Permit Modifications [15A NCAC 2Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 2Q .0516.
5. Reopening for Cause [15A NCAC 2Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 2Q .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 2Q .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 2Q .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 2Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

I.A. Reporting Requirements for Excess Emissions and Permit Deviations

[15A NCAC 2D .0535(f) and 2Q .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 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700. (*Note: Definitions of excess emissions under 2D .1110 and 2D .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 2D .0524), NESHAPS (15A NCAC 2D .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 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 2D .0535 as follows:
 - a. Pursuant to 15A NCAC 2D .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 2D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 2Q .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 2D .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 2D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .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 2D .0535(c)(1) through (7).

2. 15A NCAC 2D .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 2Q .0508(e) and 2Q .0513(b)]

This permit is issued for a fixed term of five years for facilities subject to Title IV requirements and for a term not to exceed five years in the case of all other facilities. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 2Q .0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .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 2Q .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 2Q .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 2Q .0508(f) and 2Q .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 2Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, 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 2Q .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 2Q .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 2Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 2Q .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 2Q .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 2Q .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 2Q .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 2Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environment and Natural Resources. 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 2Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 2Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 2Q .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 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .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 2Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 2Q .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 2Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 2Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 2Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(4)]

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 2Q .0501(e)]

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 2Q .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 2Q .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 2D .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 2D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 2D .0200]

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 2D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 2D .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 2D .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 2Q .0508(i)(16)]

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.

3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
 - a. a description of the training and air testing experience of the person directing the test;
 - b. a certification of the test results by sampling team leader and facility representative;
 - c. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);
 - d. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
 - e. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - f. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - g. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ.

KK. Reopening for Cause [15A NCAC 2Q .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 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .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 2Q .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 2Q .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. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 2D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .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 2D .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 2Q.0501 and .0523]

1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(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 2Q .0501(d)(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 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., 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. **Mandatory Greenhouse Gas Reporting Requirements** [15A NCAC 2Q .0508]

FEDERAL-ENFORCEABLE ONLY

If the Permittee is subject to requirements of 40 CFR 98.2(a), the Permittee shall submit all required reports to the EPA Administrator in accordance with 40 CFR 98.

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CAA	Clean Air Act
DAQ	Division of Air Quality
DENR	Department of Environment and Natural Resources
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound