



North Carolina Department of Environment and Natural Resources
Division of Air Quality

Beverly Eaves Perdue
Governor

Sheila C. Holman
Director

Dee Freeman
Secretary

October X, 2011

Mr. Mike Howell
Plant Manager
Baxter Healthcare Corporation
65 Pitt Station Road
Marion, NC 28752

Dear Mr. Howell:

SUBJECT: Air Quality Permit No. 05600T12
Facility ID: 5600164
Baxter Healthcare Corporation
Marion, North Carolina
McDowell County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for a modification and the renewal of a Title V permit received December 28, 2010, we are forwarding herewith Air Quality Permit No. 05600T12 to Baxter Healthcare Corporation, 65 Pitt Station Road, Marion, 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.

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

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a

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
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Mr. Mike Howell
October X, 2011
Page 2

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 August X, 2011 until September 30, 2016, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

The changes made to the permit are summarized in the attachment to this letter. Should you have any questions concerning this matter, please contact please contact Ms. Jenny Kelvington, P.E., at (919) 715-6254.

Sincerely yours,

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

Enclosure

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

ATTACHMENT I:
Air Quality Permit No. 05600T12
Baxter Healthcare Corporation
Marion Facility

The following changes were made to the Baxter Healthcare Corporation Facility Air Permit No. 05600T11:

Page No.	Section/Condition No.	Description of Change
--	Throughout	Updated dates and permit revision number.
3	List of Permitted Sources	Added 4 boilers, 8 generators, and 1 cyclohexanone bonding process, 1 PVC extruder die cleaning oven controlled by a water spray trap and condenser, and isopropyl alcohol cleanup operations to the list of permitted sources. Removed carpet waste as a permitted fuel for boiler WBES-1
4.	2.1.A.1	Removed the emission limit for carpet waste firing Renewed the requirement to test boiler WBES-1 once during the permit cycle and required test results to be submitted by September 30, 2012.
N/A	Former 2.1.A.4	Moved the PSD avoidance condition to Section 2.2.A.1
N/A	Former 2.1.A.5	Eliminated the State-Only requirements for toxic air pollutants associated with firing carpet waste in the wood-fired boiler.
6-7	2.1.A.4	Eliminated the pressure drop across the multicyclone and scrubber as indicator parameters for compliance assurance monitoring (CAM) and kept the scrubber water flowrate as the sole CAM indicator.
8-10	2.1.B.	Added the TV permit requirements for the two No. 6 fuel oil fired boilers and the two No. 2 fuel oil fired boilers.
11-14	2.1.C.	Added the TV permit requirements for the eight peak shaving/emergency generators including the GACT ZZZZ requirements.
15	2.1.D.	Added the TV permit requirements for the cyclohexanone bonding process and isopropyl alcohol cleanup operations.
16-17	2.1.E.	Added the TV permit requirements for the PVC extruder die cleaning oven and associated water spray trap and condenser.
18	2.2.A.	Added regulatory summary table for facility wide emission sources.
18-19	2.2.A.1	Added PSD Avoidance Condition for all facility wide combustion sources. Removed the facility wide VOC emission limit.
19	2.2.A.2	Added requirement to permit toxic air pollutant emissions prior to exceeding a TPER.
20	2.2.A.3	Added a major source avoidance condition.
20	2.2.A.4	Added 112r avoidance condition limiting the usage, storage, and handling of ammonia and chlorine.
21-22	2.2.B	Added GACT JJJJJ requirements for the facility boilers.
24-33	3.0	Updated General Conditions to the latest version 3.4.

ATTACHMENT II: INSIGNIFICANT ACTIVITIES

Air Quality Permit No. 05600T12 Baxter Healthcare Corporation Marion Facility

Emission Source I.D.	Emission Source Description
I-Wood	Wood handling and storage (includes open wood piles, manual material handling with front end loader, and manual unloading)
I-Oiltank	One fuel oil storage tank (6,000 gallon capacity)
I-EP10 GACT ZZZZ*	One 250 HP diesel fired emergency fire pump engine
I-EP11 GACT ZZZZ*	One 250 HP diesel fired emergency fire pump engine
I-EP12 GACT ZZZZ*	One 75 HP (50kW electrical) diesel fired emergency lighting generator
I-OT-1	Two No. 2 fuel oil storage tanks (10,000 gallon capacity each)
I-OT-2	One No. 6 fuel oil storage tank (100,000 gallon capacity)
I-Tubing	Five PVC tubing extruders
I-Castfilm	Two PVC cast film extruders
I-Chemlab	Chemistry laboratories supporting manufacturing operations.

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 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit".
- * The initial RICE Generable Achievable Control Technology (GACT) ZZZZ compliance is May 3, 2013.

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
05600T12	05600T11 and 01915R19	October X, 2011	September 30, 2016

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: **Baxter Healthcare Corporation**
Facility ID: **5600164**

Facility Site Location: **2859 Old Linville Road**
City, County, State, Zip: **Marion, McDowell County, North Carolina 28752**

Mailing Address: **65 Pitt Station Road**
City, State, Zip: **Marion, North Carolina 28752**

Application Number: **5600164.11A**
Complete Application Date: **December 28, 2010**
Primary SIC Codes: **4961**

Division of Air Quality, **Asheville Regional Office**
Regional Office Address: **2090 US Highway 70**
Swannanoa, North Carolina 28778

Permit issued this the X day of October, 2011

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

Table Of Contents

SECTION 1: PERMITTED EMISSION SOURCE (S) AND ASSOCIATED
AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

- 2.1- Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- 2.2- Multiple Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- 2.3- Permit Shield for Non-applicable Requirements

SECTION 3: GENERAL PERMIT CONDITIONS

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
Boilers			
WBES-1 CAM, GACT JJJJJ	One water tube design wood-fired boiler with an overfire air system (162.9 million Btu per hour maximum heat input capacity) – [On-site generated used oil may also be burned in this boiler]	MCCD-1 and WSCD-2	One multicyclone (132 nine inch diameter tubes) installed in series with one variable throat venturi-type wet scrubber (300 gallons per minute liquid injection rate)
B-4 GACT JJJJJ	No. 2 fuel oil/No. 6 fuel oil-fired boiler (52 million Btu per hour maximum heat input rate)	N/A	N/A
B-5 GACT JJJJJ	No. 6 fuel oil-fired boiler (69 million Btu per hour maximum heat input rate)	N/A	N/A
B-8 NSPS, GACT JJJJJ	No. 2 fuel oil-fired boiler (11.8 million Btu per hour maximum heat input rate)	N/A	N/A
B-9 NSPS, GACT JJJJJ	No. 2 fuel oil-fired boiler (11.8 million Btu per hour maximum heat input rate)	N/A	N/A
Peak Shaver Generators			
EP-1 through EP-7 MACT ZZZZ	Seven diesel fuel-fired peak shaver generators (2,598 Hp each)	N/A	N/A
EP-9	One diesel fuel-fired peak shaver generator (676 Hp)	N/A	N/A
Support Operations			
ES-6	cyclohexanone bonding process	N/A	N/A
ES-7	isopropyl alcohol facility cleanup operations	N/A	N/A
ES-1724	PVC extruder die cleaning oven (maximum polymer input rate of 5 pounds per hour)	CD-J17452	water spray trap and condenser

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. One water tube design wood-fired boiler (ID No. WBES-1) with associated multicyclone (ID No. MCCD-1) and venturi scrubber (ID No. WSCD-2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	0.38 pounds per million Btu heat input	15A NCAC 2D .0504
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible Emissions	20 percent opacity	15A NCAC 2D .0521
Particulate Matter	Compliance assurance monitoring	15A NCAC 2D .0614 40 CFR 64
Particulate Matter Sulfur Dioxide Nitrogen Oxide Carbon Monoxide	See Section 2.2.A.1	15A NCAC 2Q .0317 (PSD Avoidance)
Hazardous Air Pollutants	See Section 2.2.A.3	15A NCAC 2Q .0317 (MACT Avoidance)
Hazardous Air Pollutants	See Section 2.2.B.1	15A NCAC 2D .1111 40 CFR Part 63, Subpart JJJJJ

1. 15A NCAC 2D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of wood from this boiler (ID No. WBES-1) shall not exceed 0.38 pounds per million Btu heat input.

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and 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 .0504.
- c. Under the provisions of NCGS 143.215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by testing the source (ID No. WBES-1) for particulate matter with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in Section 3 – General Condition JJ. Testing shall be completed and the results submitted by **September 30, 2012**, unless an alternative date is approved by the DAQ. **Testing shall be completed at the end of a cleaning cycle when only one settling pond is operating as a worst-case scenario.** If the results of this test are above the limits given in Section 2.1 A.1.a-b above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

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

- d. Particulate matter emissions from this source (ID No. WBES-1) shall be controlled by one multicyclone (ID No. MCCD-1) followed by one venturi scrubber (ID No. WSCD-2) as described above. 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 are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:

- i. A monthly external visual inspection of the system ductwork and material collection unit for leaks;
- ii. An annual (for each 12 month period from initial inspection) internal inspection of the multicyclone's structural integrity;
- iii. An annual (for each 12 month period from initial inspection) inspection of the spray and other internal components of the scrubber to detect clogging or corrosion damage and the performance of maintenance and repair to assure proper operation of the scrubber; and
- iv. An annual (for each 12 month period from initial inspection) inspection, cleaning, and calibration of all associated instrumentation.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the scrubber, multicyclone and ductwork are not inspected and maintained.

- e. The Permittee shall install, operate, and maintain a pressure drop indicator on the scrubber (**ID No. WSCD-2**). The pressure drop across the scrubber shall be maintained at or above a minimum of 2.0 inches of water. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the pressure drop is not maintained within the prescribed limits.

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

- f. The results of each inspection and maintenance action 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 pressure drop, recorded once daily at a minimum, across the scrubber;
 - iii. The results of each inspection;
 - iv. A report of any maintenance performed on the multicyclone or scrubber; and
 - v. Any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if these records are not maintained.

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

- g. Within 30 days of receipt of written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone or scrubber.
- h. The Permittee shall submit a summary report 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. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Emissions of sulfur dioxide from this boiler (**ID No. WBES-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.

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of wood or a combination of wood and used oil in this boiler (**ID No. WBES-1**).

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from this boiler (**ID No. WBES-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 .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a day the Permittee shall observe the emission points of this boiler (**ID No. WBES-1**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this boiler (**ID No. WBES-1**) are observed to be above normal, the Permittee shall either:
- i. Take appropriate action to correct the above-normal emissions 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 2D .2610 (Method 9) is below the limit given in Section 2.1 A.3.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 postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING

- a. Per 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following.

b. Background

- i. Emission Unit.
 - (A) Description. One wood-fired boiler.
 - (B) Identification. **ID No. WBES-1**
- ii. Applicable Regulation, Emission Limit, and Monitoring Requirements.
 - (A) Regulation. 15A NCAC 2D .0504
 - (B) Emission limit: 0.38 pounds particulate matter per million Btu heat input (while burning wood only)
 - (C) Control Technology. multicyclone (**ID No. MCCD-1**) followed by venturi scrubber (**ID No. WSCD-2**).
The scrubber is a horizontally fed vertical spray type scrubber with a minimum designed water flow of 250 gallons per minute.

c. Monitoring Approach.

The key elements of the monitoring approach for particulate matter, including parameters to be monitored, parameter range and performance criteria are presented in the following table. The selected indicator is scrubber water flow rate.

	Scrubber Indicator
I. Indicator	Scrubber water flow rate
Measurement Approach	Water flow entering the scrubber will be monitored with a flow meter.
II. Indicator Range	An excursion is defined as an hourly average flow less than 250 gallons per minute (gpm).
QIP Threshold	A QIP will be required if the total duration of excursions is greater than 5% of the total boiler operating time during the reporting period (excluding start-ups and shut-downs)
A. Data Representativeness	The flow meter can be installed on the water line as flow will be consistent throughout this line. The gauge has an accuracy of $\pm 5\%$.
B. Verification of Operational Status	A water flow meter will be installed with a transmitter that feeds to a data logger installed in the control room. The new meter will be installed and calibrated according to manufacturer's recommendations. The data logging program will be audited upon installation to verify that averages are being computed correctly.
C. QA/QC Practices	The flow meter will be calibrated annually based on manufacturer's instructions.
D. Monitoring Frequency	Measured at 15-minute intervals (maximum).
Data Collection Procedures	A data logging system will collect the individual readings and reduce them to a 1-hour average. Any 1-hour average below the specified indicator range will be flagged and reported as an excursion.
Averaging Periods	1-hour

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

- d. The Permittee shall submit a summary report of all monitoring 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. All instances of deviations for the requirements of this permit must be clearly identified.

B. Two No. 6 fuel oil-fired boilers (ID Nos. B-4 and B-5) and two No. 2 fuel oil-fired boilers (ID Nos. B-8 and B-9)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur Dioxide	1.6 pounds per million Btu heat input	15A NCAC 2D .0402
Particulate Matter	<u>Affected Sources: ID Nos. B-4 and B-5</u> 0.27 pounds per million Btu heat input <u>Affected Sources: ID Nos. B-8 and B-9</u> 0.30 pounds per million Btu heat input	15A NCAC 2D .0503
Visible Emissions	20 percent opacity	15A NCAC 2D .0521
Sulfur dioxide	<u>Affected Sources: ID Nos. B-8 and B-9</u> Fuel oil firing 0.5 percent sulfur content fuel oil	15A NCAC 2D .0524 (40 CFR 60, Subpart Dc)
Particulate Matter Sulfur Dioxide Nitrogen Oxide Carbon Monoxide	See Section 2.2.A.1	15A NCAC 2Q .0317 (PSD Avoidance)
Hazardous Air Pollutants	See Section 2.2.A.3	15A NCAC 2Q .0317 (MACT Avoidance)
Hazardous Air Pollutants	See Section 2.2.B.1	15A NCAC 2D .1111 40 CFR Part 63, Subpart JJJJJ

1. 15A NCAC 2D .0402: SULFUR OXIDES

- a. Emissions of sulfur dioxide emissions from the combustion of fuel oil that are discharged from boilers (**ID Nos. B-4, B-5, B-8, and B-9**) into the atmosphere shall not exceed 1.6 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the applicable limit given in Section 2.1 B.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0402.

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

- c. The maximum sulfur content of any No. 6 fuel oil received and burned in boilers (**ID Nos. B-4 and B-5**) shall not exceed 1.52 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0402 if the sulfur content of the fuel oil exceeds this limit.
- d. To assure compliance, the Permittee shall monitor the sulfur content of the No. 6 fuel oil by using fuel oil supplier certification per shipment received. The results of the fuel oil supplier certifications shall be recorded in a logbook (written or electronic format) on a quarterly basis and include the following information:
 - i. the name of the fuel oil supplier;
 - ii. the maximum sulfur content of the fuel oil received during the quarter;
 - iii. the method used to determine the maximum sulfur content of the fuel oil; and
 - iv. a certified statement signed by the responsible official that the records of fuel oil supplier certification submitted represent all of the No. 6 fuel oil fired during the period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0402 if the sulfur content of the oil is not monitored and recorded.

- e. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of No. 2 fuel oil in these boilers (**ID Nos. B-8 and B-9**).

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

- f. The Permittee shall submit a summary report of the fuel oil supplier certifications for boilers (**ID Nos. B-4 and B-5**) postmarked on or before January 30 of each calendar year for the preceding six-month period between

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

2. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 6 fuel oil that are discharged from boilers (**ID Nos. B-4 and B-5**) into the atmosphere shall not exceed 0.27 pounds per million Btu heat input.
- b. Emissions of particulate matter from the combustion of No. 2 fuel oil that are discharged from boilers (**ID Nos. B-8 and B-9**) into the atmosphere shall not exceed 0.30 pounds per million Btu heat input.

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

- c. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the applicable limit given in Section 2.1 B.2.a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

- d. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of fuel oil in these sources.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these boilers (**ID Nos. B-4, B-5, B-8, and B-9**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.3.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 No. 2 fuel oil in these boilers (**ID Nos. B-8 and B-9**).
- d. To assure compliance, once a day while firing No. 6 fuel oil, the Permittee shall observe the emission points of these boilers (**ID Nos. B-4 and B-5**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period while firing No. 6 fuel oil to ensure compliance with this requirement. The Permittee shall be allowed three days of absent observations per semi-annual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D . 2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.3.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.
- e. 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)]

- f. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the

requirements of this permit must be clearly identified.

4. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc

- a. The Permittee shall comply 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 Dc, including Subpart A "General Provisions."

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in the affected boilers (**ID Nos. B-8 and B-9**) shall not exceed 0.5 percent by weight. [40 CFR 60.42c(d)]

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

- c. The Permittee shall retain a copy of the fuel supplier certification for any No. 2 fuel oil fired at the affected boilers (**ID Nos. B-8 and B-9**). The fuel supplier certification shall include the following information:
 - i. The name of the oil supplier;
 - ii. The sulfur content of the oil (in % by weight); and,
 - iii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of the oil exceeds the limit provided in Section 2.1 B.5.b of this permit or if fuel supplier certifications are not retained as described above. [40 CFR 60.46c(d), 40 CFR 60.48c(f)]

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

- d. Each calendar month, the Permittee shall record the total quantity of each fuel fired in the affected boilers (**ID Nos. B-8 and B-9**) during the previous calendar month. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0524 if it fails to create and retain the required record. [40 CFR 60.48c(g)(2)]

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

- e. In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee is required to provide a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, by 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 summary report shall include the following information:
 - i. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 E.4.c. of this permit;
 - ii. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected boiler during the semiannual period; and,
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

C. Eight No. 2 fuel oil-fired peak shaver generators (ID Nos. EP-1 through EP-7 and EP-9)

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	1.6 pounds per million Btu heat input	15A NCAC 2D .0402
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
Hazardous air pollutants	Work practice standards, emission limits, performance testing beginning May 3, 2013	15A NCAC 2D .1111 40 CFR Part 63, Subpart ZZZZ
Particulate Matter Sulfur Dioxide Nitrogen Oxide Carbon Monoxide	See Section 2.2.A.1	15A NCAC 2Q .0317 (PSD Avoidance)
Hazardous Air Pollutants	See Section 2.2.A.3	15A NCAC 2Q .0317 (MACT Avoidance)

1. 15A NCAC 2D .0402: SULFUR OXIDES

- a. Emissions of sulfur dioxide emissions from the combustion of fuel oil that are discharged from these generators (**ID Nos. EP-1 through EP-7 and EP-9**) into the atmosphere shall not exceed 1.6 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the applicable limit given in Section 2.1 C.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0402.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of No. 2 fuel oil in any generator.

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

- a. Emissions of sulfur dioxide from each emergency generator shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. 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 .0516.

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

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from firing No. 2 fuel oil in any generator.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the generators (**ID Nos. EP-1 through EP-7 and EP-9**) shall not be more than **20 percent opacity** each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit provided in Section 2.1 C.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of No. 2 fuel oil in any generator.

4. 15A NCAC 2D .1111, 40 CFR Part 63, Subpart ZZZZ “National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines (RICE)”

Compliance Date [40 CFR §63.6595(a)]

- a. No later than May 3, 2013, the Permittee shall comply with the Generally Achievable Control Technology (GACT) requirements in 40 CFR Part 63, Subpart ZZZZ for existing (pre-June 12, 2006) RICE located at an area source of hazardous air pollutant emissions for these generators (**ID Nos. EP-1 through EP-7 and EP-9**).

Emission Limitations [40 CFR §63.6603(b)]

- b. For each generator (**ID Nos. EP-1 through EP-7 and EP-9**), the Permittee shall either:
 - i. Reduce CO emissions by 70 percent or more at 100 percent load plus or minus 10 percent; OR
 - ii. Limit the CO concentration in the exhaust to no more than 23 parts per million by volume (ppmvd) or less at 15 percent O₂.
- c. The Permittee shall comply with one of the CO emission limitations in Section 2.1.C.4.b. above at all times.

General Compliance Requirements [40 CFR §63.6605(b)]

- d. Each generator, including associated air pollution control equipment and monitoring equipment, shall be operated in a manner consistent with safety and good air pollution control practices for minimizing emissions to the levels required in Section 2.1.C.4.b. above.

Performance Monitoring [§ 63.6612, 63.6615, 63.6625]

- e. The Permittee shall conduct the initial performance/compliance demonstration no later than October 30, 2013 and conduct subsequent performance tests every 8,760 hrs or 3 years, whichever comes first.
- f. If a catalyst is used for control and a continuous parameter monitoring system (CPMS) is used to demonstrate compliance with an emission limitation, the Permittee shall establish the average pressure drop across the catalyst and the average catalyst inlet temperature during each performance test.
- g. If a catalyst is not for control and a continuous parameter monitoring system (CPMS) is used to demonstrate compliance with an emission limitation, the Permittee shall establish the average of the parameter or parameters, approved by the Administrator (if any) according to the requirements in §63.6625(b); during each performance test
- h. For each generator controlled with an oxidation catalyst using continuous parameter monitoring to demonstrate ongoing compliance, the Permittee shall perform the following:
 - i. Install a CPMS and collect the catalyst inlet temperature data according to §63.6625(b);
 - ii. Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature;
AND
 - iii. Measure the pressure drop across the catalyst once per month and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the performance test.
- i. For each generator without oxidation catalyst control and using continuous parameter monitoring to demonstrate ongoing compliance, the Permittee shall perform the following:
 - i. Install a CPMS and collect the approved operating parameter (if any) data according to §63.6625(b);
 - ii. Reduce these data to 4-hour rolling averages; AND
 - iii. Maintain the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
- j. For each generator using continuous emissions monitoring (CEMS) to demonstrate ongoing compliance, the Permittee shall perform the following:
 - i. Install a CEMS to continuously monitor CO and either O₂ or CO₂ at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a);

- i. Conduct a performance evaluation of each CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; AND
- ii. Demonstrate the average reduction of CO or the average CO concentration, both calculated using §63.6620 over the first 4-hour testing period after successful validation of the CEMS, either equals or exceeds the required percent reduction or is equal or below the allowable CO concentration in Section 2.1.C.4.b. above.

Operating Limitations¹ for Generators with Oxidation Catalyst [40 CFR §§63.6603, 63.6630, and 63.6640]

- k. The Permittee shall maintain each catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; AND
- l. The Permittee shall maintain the temperature of each stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 degrees Fahrenheit, and less than or equal to 1350 degrees Fahrenheit.

Work Practices [40 CFR §63.6605 and 63.6625(h)]

- m. The Permittee shall operate and maintain each generator, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction.
- n. The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Ventilation System [40 CFR § 63.6625(g)]

- o. For engines not equipped with a closed crankcase ventilation system, the Permittee shall:
 - i. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere; OR
 - ii. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals, AND
 - iii. Follow the manufacturer's specified maintenance requirements for these ventilation systems

Fuel requirements [§ 63.6604]

- p. The generators may only fire diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel as follows:
 - i. 15 ppm maximum sulfur content, AND
 - ii. A minimum cetane index of 40; or a maximum aromatic content of 35 volume percent.

Reporting [§ 63.6650]

- q. The Permittee shall submit a Notification of Compliance Status, including the performance test results, no later than 60 days after the completion of any performance test in accordance with §63.10(d)(2).
- r. The Permittee shall submit a summary report of the monitoring 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. All instances of deviations from the requirements of this permit must be clearly identified. The first report must be postmarked or delivered no later than July 30, 2013, whichever date follows the end of the first calendar half after the compliance date that is specified in §63.6595 for existing compression ignition RICE located at an area sources.
- s. The semiannual compliance report must contain the following information:
 - i. Company name and address.
 - ii. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
 - iii. Date of report and beginning and ending dates of the reporting period.
 - iv. If you had a startup, shutdown, or malfunction during the reporting period, the compliance report must include the information in §63.10(d)(5)(i).

¹ The Permittee may petition the DAQ pursuant to the requirements of 40 CFR Subpart E for alternative work practices or for a different temperature range.

- v. If there are no deviations from any emission or operating limitations, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- vi. If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
- vii. For each deviation from an emission or operating limitation occurring for a generator where a CMS is used to comply with the emission and operating limitations in this Subpart, the report shall include the following information:
 - (A) The date and time that each malfunction started and stopped.
 - (B) The date, time, and duration that each continuous monitoring system (CMS) was inoperative, except for zero (low-level) and high-level checks.
 - (C) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
 - (D) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
 - (E) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
 - (F) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
 - (G) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
 - (H) A brief description of the CMS along with the date of the latest CMS certification or audit.
 - (I) A description of any changes in CMS, processes, or controls since the last reporting period.

D. Cyclohexanone Bonding Process and Isopropyl Alcohol Facility Cleanup Operations (ID Nos. ES-6 and ES-7)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work Practice Standards – See Multiple Emission Sources Section 2.2 A.2.	15A 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:
- 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,
 - clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - store wipe rags containing volatile organic compounds in closed containers,
 - not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - 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,
 - 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:
- flush parts in the freeboard area,
 - take precautions to reduce the pooling of solvent on and in the parts,
 - 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,
 - not fill cleaning machines above the fill line,
 - not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

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

- c. To assure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

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

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- the date and time of each inspection; and
 - the results of each inspection noting whether or not noncompliant conditions were observed.
- If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

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 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.

E. PVC Extruder Die Cleaning Oven (ID No. ES-J17452) and Associated Water Spray Trap and Condenser (CD-J17452)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E=4.10P^{0.67}$ Where; E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Toxic air pollutants	State-enforceable only See Multiple Emissions Sources Section 2.2 A.	15A NCAC 2Q .0711
Hazardous Air Pollutants	See Section 2.2.A	15A NCAC 2Q .0317 (MACT Avoidance)

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

- a. Emissions of particulate matter from affected source (**ID No. ES-J17452**) shall not exceed an allowable emission rate as calculated by the following equation:

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

$$P = \text{process weight in tons per hour}$$

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from this source (**ID No. ES-J17452**) shall be controlled by water spray trap and condenser (**ID No. CD-J17452**). The Permittee shall perform periodic inspections and maintenance of the control device as recommended by the manufacturer. In addition, the Permittee shall perform an annual (once every 12-month period) internal inspection of the ductwork and water spray secondary trap and condenser to ensure structural integrity.
- d. The results of each inspection and maintenance action 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. A report of any maintenance performed on the water spray secondary trap and condenser; 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.

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

- a. Visible emissions from the affected source (**ID No. ES-J17452**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 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 a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The Permittee shall establish normal visible emissions for the emission source within 30 days of commencing operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (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 postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2.2 – Multiple Emission Sources and Specific Limitations and Conditions

A. Facility Wide Emission Sources

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter Sulfur Dioxide Nitrogen Oxide Carbon Monoxide	Less than 250 tons/12 month period (each pollutant)	15A NCAC 2Q .0317 (PSD Avoidance)
Toxic Air Pollutants	State-enforceable only Toxic pollutants emission rates (TPER)	15A NCAC 2Q .0711
Hazardous Air Pollutants	Less than 10/25 tons of single/total HAPs per consecutive 12 month period	15A NCAC 2Q .0317 (MACT Avoidance)
Hazardous Air Pollutants	Avoidance of Accidental Release Prevention Requirements	15A NCAC 2Q .0317 (112(j) avoidance)

1. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources, the Permittee shall discharge from all facility wide emission sources combined into the atmosphere less than 250 tons each of particulate matter, sulfur dioxide, nitrogen oxide, and carbon monoxide per consecutive 12-month period.

Testing [15A NCAC 2D .0501(c)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c) and General Condition JJ. If the results of this test show facility wide emissions are above the limits given in Section 2.2 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. Each calendar month, the Permittee shall calculate and record the amount of particulate matter, sulfur dioxide, nitrogen oxide, and carbon monoxide emissions from the wood-fired boiler (**ID No. WBES-1**) in accordance with the following equations:

i. Particulate matter.

$$E_{PM10} = (Q_w)(0.13 \text{ pounds } PM_{10} \text{ per million Btu}^2) / 2000$$

ii. Sulfur dioxide.

$$E_{SO2} = (Q_w) (0.0025 \text{ pounds } SO_2 \text{ per million Btu}^3) / 2000$$

iii. Nitrogen oxides.

$$E_{NOx} = (Q_w)(0.263 \text{ pounds } NO_x \text{ per million Btu}^4) / 2000$$

iv. Carbon monoxide.

$$E_{CO} = (Q_w)(0.408 \text{ pounds } CO \text{ per million Btu}^5) / 2000$$

Where: E_{PM10} = Particulate matter emissions in tons per month

E_{SO2} = Sulfur dioxide emissions in tons per month

E_{NOx} = Nitrogen oxide emissions in tons per month

² Emission factor is based on 5/22/07 stack test.

³ Emission factor is based on 4/12/01 stack test.

⁴ Emission factor is based on 7/26/02 stack test.

⁵ Emission factor is based on 7/26/02 stack test.

E_{CO} = Carbon monoxide emissions in tons per month

Q_w = Quantity of wood combusted in million Btu per month

Assumptions: Wood heating value = 4500 Btu per pound (green ton basis)
 3.3 pounds steam per pound of wood (Marion Plant empirical results)

- d. The Permittee shall request an administrative permit amendment, as provided in 15A NCAC 2Q .0514, to revise the emission factor(s) listed in Section 2.2.A.1.c. above within 30 days of receiving stack test results if testing shows higher emission rates.
- e. Each calendar month, the Permittee shall calculate and record the total amount of particulate matter, the total amount of sulfur dioxide, the total amount of nitrogen oxide, and the total amount of carbon monoxide emitted from the fuel oil-fired boilers (**ID Nos. B-4, B-5, B-8, and B-9**) and generators (**ID Nos. EP-1 to EP-7 and EP-9**) using emission factors based on U. S. EPA AP-42 emission factors, NC DAQ emission spreadsheets, or NC DAQ approved stack testing.
- f. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if monthly emission records are not maintained or if facility wide emissions of particulates, sulfur dioxide, nitrogen oxide, or carbon monoxide exceed the limit in Section 2.2 A.1.a above.

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

- g. The Permittee shall submit a summary report of the 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 quantity of wood combusted for the previous 17 months;
 - ii. The facility wide totals of actual particulate, sulfur dioxide, nitrogen oxide, and carbon monoxide emissions for each month during the previous 17 months; and
 - iii. The facility wide rolling totals of actual particulate, sulfur dioxide, nitrogen oxide, carbon monoxide emissions for each of the 12-month periods over the previous 17 months.

All instances of deviations from the requirements of this permit must be clearly identified.

State Enforceable Only

- 2. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT** - Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility's non combustion sources, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711.
 - a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
 - b. **PRIOR** to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
 - c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Hydrogen chloride (hydrochloric acid) (7647-01-0)				0.18

**3. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

- a. In order to avoid classification as a major source for MACT applicability, the facility-wide emission sources shall discharge into the atmosphere less than 10 tons of any single hazardous air pollutant (HAP) per consecutive 12-month period and less than 25 tons of any combination of HAPs per consecutive 12-month period.
- b. HAP emissions from the wood-fired boiler (ID No. WBES-1) shall be controlled shall be controlled by one multicyclone (**ID No. MCCD-1**) followed by one venturi scrubber (**ID No. WSCD-2**).

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

- c. The Permittee shall perform inspection and maintenance of the multicyclone and scrubber as specified in Condition 2.1.A.1 and shall monitor the flow rate of the scrubber as specified in Condition 2.1.A.4. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if inspection and maintenance of the multicyclone and scrubber are not performed or if the flow rate of the scrubber is not monitored.

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

- d. The Permittee shall keep a record of the applicability determination on-site at the source for a period of five years after the determination, or until the source becomes an affected source. The determination must include the analysis demonstrating why the Permittee believes the facility is an unaffected source pursuant to 40 CFR Part 63.10(b)(3). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS
for 40 CFR Part 68 "ACCIDENTAL RELEASE PREVENTION REQUIREMENTS: RISK
MANAGEMENT PROGRAMS UNDER THE CLEAN AIR ACT, SECTION 112(r)" - To comply with this
permit and avoid the applicability of 40 CFR Part 68 "Accidental Release Prevention Requirements: Risk
Management Programs Under the Clean Air Act, Section 112(r)," the Permittee shall:**

- a. not use, store or handle, within any process, more than 20,000 pounds of aqueous ammonia at concentrations greater than 20%; and,
- b. not use, store or handle, within any process, more than 2,500 pounds (193 gallons) of chlorine.

**B. One water tube design wood-fired boiler (ID No. WBES-1) with associated multicyclone (ID No. MCCD-1) and venturi scrubber (ID No. WSCD-2);
Two No. 6 fuel oil-fired boilers (ID Nos. B-4 and B-5); and
Two No. 2 fuel oil-fired boilers (ID Nos. B-8 and B-9)**

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutants	Work Practices	15A NCAC 2D .1111 40 CFR Part 63, Subpart JJJJJ

1. 15A NCAC 2D .1111, 40 CFR Part 63, Subpart JJJJJ “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers at Area Sources”

Compliance Date [40 CFR §63.1196]

- a. No later than March 21, 2012, the Permittee shall comply with the work practices in 40 CFR Part 63, Subpart JJJJJ for existing boilers (**ID Nos. WBES-1, B-4, B-5, B-8, and B-9**) located at an area source of hazardous air pollutant emissions.

Work Practices [40 CFR §63.11223]

- b. The Permittee shall tune-up the wood-fired boiler (**ID No. WBES-1**) and each fuel oil-fired boiler (**ID Nos. B-4, B-5, B-8, and B-9**) by the compliance date in Condition 2.2.B.1.a above. Thereafter, the Permittee shall perform a biennial tune-up of each boiler no later than 25 months after the previous tune-up. If the boiler is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.
- c. As a minimum, the Permittee shall conduct the following inspections, optimization, and measurements for each boiler during the tune-up:
 - i. Inspect the burner and clean or replace any components of the burner as necessary. The Permittee may delay the burner inspection until the next scheduled boiler shutdown but no later than 36 months after the previous inspection.
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

Energy Assessment [40 CFR §63.11196, 63.11214]

- d. The Permittee shall complete a one-time energy assessment performed by a qualified assessor on or after January 1, 2008 and no later than March 21, 2014.
- e. As a minimum, the energy assessment shall include:
 - i. A visual inspection of the boiler system,
 - ii. An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints,
 - iii. Inventory of major systems consuming energy from affected boilers,
 - iv. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
 - v. A list of major energy conservation measures,
 - vi. A list of energy savings potential of the energy conservation measures identified, and
 - vii. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

Recordkeeping and Reporting [40 CFR §63.9, 63.11214, 63.11223, and 63.11225]

- f. The Permittee shall prepare a Notification of Compliance Status report, signed by the responsible official, and submitted no later than July 19, 2012 indicating that the initial tune-up of each operating boiler is complete.

- g. The Permittee shall prepare a Notification of Compliance Status report, signed by the responsible official, and submitted no later than April 20, 2014 indicating that the energy assessment of each boiler and energy use systems is complete.
- h. The Permittee shall prepare biennially and submit upon request of the NC DAQ, a report containing the following information for each boiler:
 - i. The date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
 - ii. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler,
 - iii. A description of all corrective actions taken as a part of the tune-up of the boiler, and
 - iv. The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- i. The Permittee shall prepare by March 1 an annual compliance certification report for the previous calendar year containing the following information:
 - i. A description of all deviations, the time periods during which the deviations occurred, and the corrective actions taken,
 - ii. The company name and address, and
 - iii. A statement signed by the responsible official certifying the truth, accuracy and completeness of the notification and stating whether the source has complied with all the relevant standards and other requirements of this subpart.
- j. The annual compliance certification report shall be submitted to the NC DAQ by March 15 if the facility deviated from any applicable requirement during the previous calendar year or upon request by the NC DAQ.
- k. The Permittee shall maintain all records for a period of five years during which time the records shall be kept onsite for at least the first two years.

2.3 – Permit Shield for Non-applicable Requirements

The Permittee is shielded from the following non-applicable requirements as of the date of issuance of this permit based on information furnished in letters dated August 27, 2001 and June 20, 2003 from Trigen-BioPower, Inc⁶. This shield does not apply to future modifications or changes in the method of operation. [15A NCAC 2Q .0512(a)(1)(B)]:

- A. 15A NCAC 2D .0524 [40 CFR 60.40b (Subpart Db)] is not applicable to this source (**ID No. WBES-1**) because:
1. Subpart Db applies to steam generating units that commence construction, modification, or reconstruction after June 19, 1984 and that have a maximum design heat input capacity of greater than 100 million Btu per hour;
 2. This source (**ID No. WBES-1**) has a maximum heat input capacity of 162.9 million Btu per hour and was manufactured (constructed) in 1972;
 3. This source (**ID No. WBES-1**) was purchased by the Permittee and relocated/reassembled at the North Cove, North Carolina facility in 1985. While some source components were replaced as part of the reassembly, the fixed capital cost of the replacement components did not exceed 50 percent of the fixed capital costs that would be required to construct a comparable entirely new source. Thus this source cannot be considered “reconstructed” under the definition in 40 CFR 60.15;
 4. The design capacities or method of operation were not altered as a result of the reassembly and re-commissioning of the source (**ID No. WBES-1**). Therefore, there was no increase in the hourly emission rate from the source and this project can not be considered a “modification” under 40 CFR 60.14; and
 5. This source (**ID No. WBES-1**) was upgraded in December 2000, with the installation of an overfire air system. The project was not considered a “modification” under 40 CFR 60.14(e)(5) since the primary function was the reduction of both nitrogen oxide and carbon monoxide. This project is also not considered a “reconstruction” under 40 CFR 60.15 since the fixed capital costs of this project did not exceed 50 percent of the fixed capital costs that would be required to construct a comparable entirely new facility.
- B. 15A NCAC 2D .1111 is not applicable to this source (**ID No. WBES-1**) because:
1. Source testing conducted July 2002 for hydrogen chloride, formaldehyde, and acetaldehyde and the development of source specific emission factors for these pollutants; and
 2. Applying current AP-42 emission factors for the remaining hazardous air pollutants (HAP’s) emitted indicates that the potential emissions for all HAP’s emitted from this facility are below the Title III threshold of 10 tons per year for any single HAP or greater than 25 tons per year for all HAP’s combined. As such, the facility is classified as a Title III minor source as affirmed by DAQ in its July 11, 2003 letter to the Permittee, and is not subject to Section 112 requirements. The Permittee shall keep a record of the applicability determination on site at the source for a period of five years after the determination, or until the source becomes an affected source. The determination must include the analysis demonstrating why the Permittee believes the source is unaffected pursuant to 40 CFR 63.10(b)(3). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if these records are not maintained.

⁶Trigen-BioPower, Inc owned and operated the wood-fired boiler (**ID No. WBES-1**) facility until it was purchased by Baxter Healthcare in 2010. The permit shield for non-applicable requirements transferred to Baxter Health Care with the ownership change.

SECTION 3 - GENERAL CONDITIONS (version 3.4 - 04/12/11)

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)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 2D.

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

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

4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - (1) Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - (2) Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - (3) Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 2D .2600 has precedence over all other tests.

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. **Third Party Participation and EPA Review** [15A NCAC 2Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environment Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 2Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
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
NAA	Non-Attainment Area
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