



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

Michael F. Easley, Governor

William G. Ross, Jr., Secretary  
B. Keith Overcash, P.E., Director

November 26, 2007

Gary Geisel  
IACNA Corporate  
Manager of EH&S  
5300 Auto Club Drive  
Dearborn, MI 48126

Dear Mr. Geisel:

**SUBJECT: Air Quality Permit No. 05825T09**  
**Facility ID: 8400016**  
**IAC Albemarle, LLC**  
**Automotive Carpets Division**  
**Albemarle, North Carolina**  
**Stanly County**  
**Fee Class: Title V**

In accordance with your completed Air Quality Permit Application for an ownership and facility name change associated with your Title V permit received September 27, 2007, we are forwarding herewith Air Quality Permit No. 05825T09 to IAC Albemarle, LLC, Automotive Carpets Division, 313 Bethany Road, Albemarle, 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 of Part I. **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 conditions of the attached permit that are applicable to that particular emission source.

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

---

**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](http://www.ncair.org)

One  
North Carolina  
*Naturally*

Mr. Geisel  
November 26, 2007  
Page 2

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. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding.

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 143-215-108(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 143-215.108 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 November 26, 2007 until August 31, 2008, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Michael Smithwick, P.E. at (919) 715-6247.

Sincerely yours,

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

Enclosure  
cc: Central Files  
Gregg Worley, EPA Region 4, Permit only  
 Mooresville Regional Office

## Insignificant Activities

Per 15A NCAC 2Q .0503(8)

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>
I-1	Dye Preparation Area
I-2	Three (3) 30,000 gallon propane tanks
I-3	One (1) 200,000 gallon No.2 Fuel Oil Tank
I-4	Three (3) 5,800 gallon latex tanks
I-5	One (1) 5,500 gallon latex tank
I-6	One (1) 290 gallon diesel fuel tank
I-7	One (1) 500 gallon gasoline tank
I-8	Two (2) 1,000 gallon propane tanks
I-9	Two (2) 120 gallon propane tanks
I-10	One (1) 500 gallon propane tank
I-11	One (1) 250 gallon propane tank

# Summary of Changes to Permit

The following changes were made to the IAC Albemarle, LLC Air Permit. New Permit No. 05825T09.

<b>Page(s)</b>	<b>Section</b>	<b>Description of Change(s)</b>
Attachments	-	- Updated attachment summarizing changes to permit. - Changed Insignificant List to current format
1	Cover Page	- Updated permit revision numbers and effective date. - Updated permit issuance date. - Updated new facility name to IAC Albemarle, LLC - Updated Shell language
9	Part I, Section 2.1 A.5	- Updated 2D .0521 Condition
3 - 30	All, Header	- Updated permit revision number.
21 -30	Part I, Section 3	- Updated General Conditions

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



**Division of Air Quality**

## AIR QUALITY PERMIT

<b>Permit No.</b>	<b>Replaces Permit No.(s)</b>	<b>Effective Date</b>	<b>Expiration Date</b>
05825T09	05825T07	November 26, 2007	August 31, 2008

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission sources and associated air pollution control devices 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:** **IAC Albemarle, LLC**  
**Automotive Carpets Division**

**Facility ID:** **8400016**

**Facility Site Location:** **313 Bethany Road**  
**City, County, State, Zip:** **Albemarle, Stanly County, North Carolina 28001**  
**Mailing Address:** **P.O. Box 580**  
**City, State, Zip:** **Albemarle, North Carolina 28001**

**Application Number:** **8400016.07A**  
**Complete Application Date:** **September 27, 2007**  
**Primary SIC Codes:** **2273**

**Division of Air Quality,**  
**Regional Office Address:**  **Mooresville Regional Office**  
**610 East Center Avenue**  
**Suite 301**  
**Mooresville, North Carolina 28115**

Permit issued this the 26th day of, November 2007

---

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

Table Of Contents

**PART I -**

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Sources Specific Limitations and Conditions  
(Including specific requirements, testing, monitoring, record keeping, and reporting requirements)

2.2- Multiple Emission Source(s) Specific Limitations and Conditions  
(Including specific requirements, testing, monitoring, record keeping, and reporting requirements)

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

**PART II -**

This permit does not include a Part II.

# PART I

The Division of Air Quality (DAQ), the United States Environmental Protection Agency (EPA), and citizens as defined under the Federal Clean Air Act have the authority to enforce the terms, conditions, and limitations contained in Part I of this permit unless otherwise specified.

Under Title 15A NCAC 2Q, the operation of emission source(s) and associated air pollution control device(s) and appurtenances listed in Part I of this permit is based on plans, specifications, operating parameters, and other information as submitted in the Air Quality Permit Application.

## SECTION 1 - PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) 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
<b>Boilers</b>			
ES-B1	Boiler #1(77 million Btu per hour industrial boiler; Primarily fires #2 fuel oil and natural gas but is capable of burning coal and pelletized wood waste)	CD-MC1	Multicyclone (60 nine inch diameter tubes)
ES-B2	Boiler #2 (77 million Btu per hour industrial boiler; Primarily fires #2 fuel oil and natural gas but is capable of burning coal and pelletized wood waste)	CD-MC2	Multicyclone (60 nine inch diameter tubes)
ES-B3 ( <b>BACT</b> )	Boiler #3 (99.5 million Btu per hour spreader stoker boiler; Primarily fires bituminous coal with sulfur content less than 1% and is capable of burning #2 fuel oil)	CD-BH-1	Jet pulse bag house (13,000 square feet of filter area)
<b>Coating Ranges</b>			
ES-CDR1	Continuous Dye Range #1 - Natural gas/propane fired drying unit (13.8 million Btu per hour maximum heat input)	N/A	N/A
ES-CDR2	Continuous Dye Range #2 - Natural gas/propane fired drying unit (19.0 million Btu per hour maximum heat input)	N/A	N/A
ES-CDR3	Continuous Dye Range #3 - Natural gas/propane fired drying unit (12.0 million Btu per hour maximum heat input)	N/A	N/A
ES-CR1	Textile Coating Range #1 - Natural gas/propane fired drying unit (13.5 million Btu per hour maximum heat	N/A	N/A

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
	input)		
ES-D6	Pilot Range #6 – Natural gas/propane fired drying unit (0.88 million Btu per hour maximum heat input)	N/A	N/A
ES-RR4	Refinish Range #4 –Natural gas/propane fired drying unit (5.8 million Btu per hour maximum heat input)	N/A	N/A
ES-RD	R&D Area - Natural gas/propane fired drying unit (1.0 million Btu per hour maximum heat input)	N/A	N/A
<b>Silos</b>			
ES-CS1 ( <b>BACT</b> )	Coal Silo#1	CD-CB1	Bag Filter (18 square feet of surface area)
ES-AS1 ( <b>BACT</b> )	Ash Silo #1	CD-AB1	Bag Filter (9.7 square feet of surface area)

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1 Emission Source(s) and Control Device(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, record keeping, and reporting requirements as specified herein:

- A. Boiler #1 (ID No. ES-B1)**  
**Boiler #2 (ID No. ES-B2)**  
**Boiler #3 (ID No. ES-B3)**

The following table provides a summary of limits and/or standards for the three boilers.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	<i>POS - firing natural gas, coal, or No. 2 fuel oil</i> 0.24 pounds per million Btu per hour	15A NCAC 2D .0503(c)
Particulate matter	<i>AOS - firing pelletized wood waste only</i> $E=1.1698Q^{0.2230}$ E = allowable emission limit Q = maximum heat input in million Btu/hour heat input  <i>AOS - firing pelletized wood only (ES-B1 or ES-B2) or firing wood in combination with other fuels</i> $[(0.32)(Q_w) + (0.24)(Q_o)]$ pounds per million Btu ( $Q_w + Q_f$ ) where: $Q_w$ = actual wood heat input rate in Btu/hr $Q_o$ = actual other fuels heat input rate in Btu/hr	15A NCAC 2D .0504(c)
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516(a)
Visible emissions	<b>(ID Nos. ES-B1 and ES-B2 only)</b> 40 percent opacity	15A NCAC 2D .0521(c)
Particulate matter Sulfur dioxide Nitrogen dioxide Fluorides Sulfuric acid Opacity	<b>(ID No. ES-B3 only)</b> For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded: Particulate Matter 0.05 lb/MMBtu Sulfur Dioxide 1.5 lb/MMBtu Nitrogen Dioxide 0.6 lb/MMBtu Fluorides 0.0064 lb/MMBtu Sulfuric Acid 0.021 lb/MMBtu Opacity 20 %	15A NCAC 2D .0530
Odors	<b>State-enforceable only</b> <b>See Section 2.2 A.2</b> Odorous emissions must be controlled	15A NCAC 2D .1806
Hazardous air pollutants	Less than 10 tons per year any single HAP Less than 25 tons per year any combination HAPs <b>See Section 2.2 A.4</b>	15A NCAC 2Q .0317 (MACT Avoidance)
-	<b>(ID No. ES-B3 only)</b> Permit Shield for Nonapplicable Requirements <b>See Section 2.2 A.5</b>	15A NCAC 2Q .0512

#### 1. ALTERNATIVE OPERATING SCENARIOS [15A NCAC 2Q .0508(p)]

- a. The Permittee, contemporaneously with making a change from one alternate operating scenario to another, shall record in a logbook (written or electronic format) the scenario under which it is operating. [15A NCAC 2Q .0508(p)]

**POS -firing natural gas, coal, or No. 2 fuel oil**

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

- a. Emissions of particulate matter from the combustion of natural gas, coal or No. 2 fuel oil that are discharged from these sources (**ID Nos. ES-B1, ES-B2, and ES-B3**) into the atmosphere shall not exceed **0.24 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

**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 exceed the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

*Within 90 days of commencing the firing of coal by Boilers Nos. 1 or 2 (ID Nos. ES-B1 and ES-B2):*

- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above by testing the multi fuel-fired boilers (**ID Nos. ES-B1 and ES-B2**) while firing coal for particulate matter in accordance 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 within 90 days following the commencement of coal firing in these boilers (**ID Nos. ES-B1 and ES-B2**), unless an alternate date is approved by the DAQ. 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 .0503.

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

- d. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of natural gas or No. 2 fuel oil in these sources (**ID Nos. ES-B1, ES-B2, and ES-B3**).
- e. When the boilers are non-operational no monitoring is required, however records shall indicate this condition (namely, Boiler No. 2 is non-operational). Monitoring, recordkeeping and reporting shall commence when Boiler No. 2 (and any non operational equipment) is placed into operation.

*Boiler No. 3 (ID No. ES-B3) Additional PSD/BACT limit:*

- f. See 2.1 A.6.a for additional PSD/BACT limit of **0.05 pounds per million Btu heat input** and associated testing requirements.
- g. Particulate matter emissions from the boilers (**ID Nos. ES-B1 and ES-B2**) shall be controlled by multicyclones (**ID Nos. CD-MC1 and CD-MC2**). 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 shall include the following:
  - i. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclones' structural integrity; and
  - ii. a monthly external visual inspection of the system ductwork and material collection unit for leaks. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if the multicyclones and ductwork are not inspected and maintained.
- h. Particulate matter emissions from Boiler #3 (**ID No. ES-B3**) shall be controlled by a bagfilter (**ID No. CD-BH1**) which has 13,000 square feet of surface area. 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 shall include the following:
  - i. an annual (for each 12 month period from initial inspection) internal inspection of the baghouse for deterioration and heat damage;
  - ii. replacement of bags as shall be deemed necessary, as a result of inspections for damage or deterioration, maintenance performed, and past history of bag replacements; and
  - iii. a monthly external visual inspection of the system ductwork and material collection unit for heat

damage and leaks.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if the bag filter and ductwork are not visually inspected for deterioration or records are not maintained.

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

- i. The results of inspection and maintenance activities 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. explicitly noting those emissions units that are non-operational;
  - ii. the date and time of each recorded action;
  - iii. the results of each inspection, including a broken bag chart (where applicable);
  - iv. the results of any maintenance performed on the bagfilter, multicyclones; and
  - v. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if these records are not maintained.

*Boiler No. 3 (ID No. ES-B3) Additional Monitoring, Recordkeeping and Reporting Requirements for PSD/BACT:*

- j. See 2.1 A.6.k for additional monitoring, recordkeeping, and reporting requirements for PSD/BACT.

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

- k. Within 30 days of a written request by the DAQ, the Permittee shall submit a report of any maintenance performed on multicyclones (**ID Nos. CD-MC1 and CD-MC2**) and the bag filter (**ID No. CD-BH1**).
- l. 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.

**AOS -firing wood fuel or in combination with other fuels**

**3. 15A NCAC 2D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the boilers (**ID Nos. ES-B1 and ES-B2**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0504]

$$E = \frac{[(0.32)(Q_w) + (0.24)(Q_o)]}{(Q_w + Q_o)} \text{ pounds per million Btu}$$

where:  $Q_w$  = actual pelletized wood heat input rate in Btu/hr  
 $Q_o$  = actual other fuels heat input rate in Btu/hr

**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.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.
- Within 90 days of commencing the firing of pelletized wood by Boilers Nos. 1 or 2 (ID Nos. ES-B1 and ES-B2):*
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above by testing the multi fuel-fired boilers (**ID Nos. ES-B1 and ES-B2**) while firing pelletized wood 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 within 90 days following the commencement of pelletized wood firing by Boilers No. 1 or 2 (**ID Nos. ES-B1 and ES-B2**), unless an alternate date is approved by the DAQ. 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 .0504.

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

- d. When boilers are non-operational no monitoring is required, however, records shall indicate this condition (namely, Boiler No. 2 is non-operational). Monitoring, recordkeeping and reporting shall commence when Boiler No. 2 (and any non-operational equipment) is placed into operation.
- e. Particulate matter emissions from the boilers (**ID Nos. ES-B1 and ES-B2**) shall be controlled by multicyclones (**ID Nos. CD-MC1 and CD-MC2**). 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 shall include the following:
  - i. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclones' structural integrity; and
  - ii. a monthly external visual inspection of the system ductwork, and material collection unit for leaks. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the multicyclones and ductwork are not inspected and maintained.

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

- f. The results of inspection and maintenance activities 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. explicitly noting those emissions units that are non-operational;
  - ii. the date and time of each recorded action;
  - iii. the results of each inspection;
  - iv. a report of any maintenance performed on the multicyclones; 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 a written request by the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones (**ID Nos. CD-MC1 and CD-MC2**).
- h. The Permittee shall submit a summary report of monitoring and record keeping 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.

**4. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from the boilers (**ID Nos. ES-B1, ES-B2, and ES-B3**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516(a)]

**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.4.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of wood, natural gas, or No. 2 fuel oil the boilers (**ID Nos. ES-B1 and ES-B2**).
- d. The maximum sulfur content of any coal received and burned in the boilers (**ID Nos. ES-B1, ES-B2, and ES-B3**) shall not exceed 1.0 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the coal exceeds this limit. [15A NCAC 2Q .0508(aa)]. See Section 2.1 A.6 for PSD/BACT limit of 1.0 percent by weight.
- e. To assure compliance, the Permittee shall monitor the sulfur content of the coal by using coal supplier

certification per lot received. The coal supplier certification shall be recorded in a logbook (written or electronic format) per lot received and include the following information:

- i. the name of the coal supplier;
- ii. the maximum sulfur content of the coal received per lot shipment;
- iii. the gross calorific value (Btu) of the coal;
- iv. a statement verifying that the methods used to determine the maximum sulfur content of the coal was in accordance with the following:
  - (A) sampling -- ASTM Method D 2234;
  - (B) preparation -- ASTM Method D 2013;
  - (C) gross calorific value (Btu) -- ASTM Method D-5865;
  - (D) moisture content --ASTM Method D 3173;
  - (E) sulfur content -- ASTM Method D 3177 or ASTM Method D 4239

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the coal is not monitored and recorded.

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

- f. The Permittee shall submit a summary report of the coal supplier certifications 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 a certified statement signed by the responsible official that the records of coal supplier certification submitted represent all of the coal fired during the reporting period. All instances of deviations from the requirements of this permit must be clearly identified.

**5. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-B1 and ES-B2**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

**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.5.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 while firing coal or palletized woodwaste, the Permittee shall observe the emission points of the boilers (**ID Nos. ES-B1 and ES-B2**) 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 these boilers (**ID Nos. ES-B1 and ES-B2**) 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 sources in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 A.5.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.
- d. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas or No. 2 fuel oil in the boilers (**ID Nos. ES-B1 and ES-B2**).

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

- 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. explicitly noting those emissions units that are non-operational;

- ii. the date and time of each recorded action;
  - iii. 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
  - iv. 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.

**6. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded [15A NCAC 2D .0530]:

99.5 mmBtu/hr Coal-Fired Boiler <b>(ID No. ES-B3)</b>	Sulfur Dioxide	1.5 lb/MMBtu
	Particulate Matter	0.05 lb/MMBtu
	Nitrogen Dioxide	0.6 lb/MMBtu
	Fluorides	0.0064 lb/MMBtu
	Sulfuric Acid	0.021 lb/MMBtu
	Opacity	20%

- b. For PSD purposes, the boiler **(ID No. ES-B3)** shall be properly operated and maintained at all times in such a manner as to reduce air contamination to the extent necessary to comply with applicable regulations and standards, and in no case shall the opacity of the visible emissions exceed 20 percent opacity for an aggregate of more than 5 minutes in any one hour or more than 20 minutes in any 24 hour period. [15A NCAC 2D .0530]

**State-enforceable only**

- i. Start-up and shut-down. Excess emissions during start-ups and shutdowns shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that the excess emissions were unavoidable. [15A NCAC 2D .0535(g)]

**Testing** [15A NCAC 2D .0501]

- c. If testing is required for emissions of sulfur dioxide, 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.6.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- d. If testing is required for emissions of particulate matter, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test exceed the limit given in Section 2.1 A.6.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- e. If testing is required for emissions of nitrogen dioxide, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(7) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.6.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- f. If testing is required for emissions of fluorides, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(9) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.6.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- g. If testing is required for emissions of sulfuric acid, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(5) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.6.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- h. If testing is required for visible emissions, 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.6.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- i. To demonstrate Best Available Control Technology (BACT) for emissions of sulfur dioxide, the sulfur content of the coal burned in the boiler (**ID No. ES-B3**) shall not exceed 1.0 percent by weight. To assure compliance with 15A NCAC 2D .0530 for emissions of sulfur dioxide, the Permittee shall monitor the sulfur content of the coal by using coal supplier certification per lot received. The coal supplier certification shall be recorded in a log (written or electronic format) per lot and include the following information:
  - i. the name of the coal supplier;
  - ii. the maximum sulfur content of the coal received per lot;
  - iii. the gross calorific value (Btu) of the coal;
  - iv. a statement verifying that the methods used to determine the maximum sulfur content of the coal was in accordance with the following:
    - (A) sampling -- ASTM Method D 2234;
    - (B) preparation -- ASTM Method D 2013;
    - (C) gross calorific value (Btu) -- ASTM Method D-5865;
    - (D) moisture content --ASTM Method D 3173;
    - (E) sulfur content -- ASTM Method D 3177 or ASTM Method D 4239

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 for emissions of sulfur dioxide if the sulfur content of the coal is not monitored and recorded.
- j. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits listed in Section 2.1 A.6.a above, by testing the boiler (**ID Nos. ES-B3**) for particulate matter in accordance 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 of this permit. Testing shall be completed and the results submitted within one year of the effective date of permit, or **October 17, 2004**, unless an alternate date is approved by the DAQ. If the results of this test for particulate matter from the boiler (**ID No. ES-B3**) are above the limit given in Section 2.1 A.6.a above, or 0.05 lbs/MMBtu, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- k. The Permittee shall, to the extent practicable, operate the boiler (**ID No. ES-B3**) with the bagfilter (**ID No. CD-BH-1**) to minimize particulates and/or visible emissions during the start-up and shut-down periods. **The bagfilter shall be operated at all times when the boiler (ID No. ES-B3) is in operation except when the inlet temperature is less than 350°F.** Particulate matter emissions from the boiler (**ID Nos. ES-B3**) shall be controlled by bag filter (**ID No. CD-BH1**) which has 13,000 square feet of surface area. 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 shall include the following:
  - i. an annual internal inspection of the bag house for deterioration and heat damage;
  - ii. replacement of bags as shall be deemed necessary, as a result of inspection for damage or deterioration, maintenance performed, and past history of bag replacement; and
  - iii. a monthly external visual inspection of the system duct work, and material collection unit for heat damage and leaks.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the bag filter and duct work are not visually inspected for deterioration.
- l. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits listed in Section 2.1 A.6.a above, by testing the boiler (**ID No. ES-B3**) for nitrogen dioxide in accordance 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 of this permit. Testing shall be completed and the results submitted within one year of the effective date of the permit, or **October 17, 2004**, unless an alternate date is approved by the DAQ. If the results of this test for nitrogen dioxide from the boiler (**ID No. ES-B3**) are above the limit given in Section 2.1 A.6.a above, or 0.60 lbs/MMBtu, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- m. Within one year of the effective date of the permit, or **October 17, 2004**, unless an alternate date is approved by the DAQ, the Permittee shall conduct control tests of boiler (**ID No. ES-B3**) exhaust gas emissions to determine the appropriate operating range of the oxygen sensor that will ensure nitrogen dioxide emissions levels are maintained. The Permittee shall submit a test protocol to the DAQ for review and approval prior to conducting the test. The Permittee shall be deemed to be in noncompliance with 15A

NCAC 2D .0530 if the control tests are not conducted and if an appropriate operating range for the oxygen sensor is not determined.

- n. Emissions of nitrogen dioxide will be controlled by reducing the amount of excess air supplied for combustion. To comply with the limitations of Section 2.1 A.6.a above, for nitrogen dioxide, and ensure effective boiler operating conditions are maintained, the Permittee shall continuously monitor the exhaust concentration of oxygen after combustion using an oxygen sensor and shall record exhaust gas oxygen concentrations hourly averages in a log. The Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530 if the exhaust concentrations of oxygen are not monitored. A copy of the log shall be made available for inspection to representatives of DAQ upon request.
- o. The oxygen sensor shall be operated and maintained according to specifications and procedures provided by manufacturer. Results of any repair and maintenance activities on oxygen sensor shall be recorded in log. The Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530 if the information on repair and maintenance is not recorded in the log and if the oxygen sensor is not operated or maintained according to specifications and procedures provided by manufacturer. A copy of the log shall be made available for inspection to representatives of DAQ upon request.
- p. The Permittee shall maintain, in the log, a 30-day rolling averaging of recorded readings (see requirements of Section 2.1 A.6.n above). If the monitoring system fails or malfunction for more than 5% of the 30 day averaging time (monitor downtime) or if the 30 day rolling average of oxygen concentrations in the exhaust gases from the boiler (**ID No. ES-B3**) are observed to be outside the operating range that ensures compliance with nitrogen oxide emission limitations (see requirements of Section 2.1 A.6.m above) the Permittee shall either:
  - i. be deemed to be in noncompliance with 15A NCAC 2D .0530; or
  - ii. demonstrate that the nitrogen dioxide emission concentration from the boiler (**ID No. ES-B3**), in accordance with 15A NCAC 2D .0501(c)(7), is below the limit given in Section 2.1 A.6.a above.If the demonstration in (b) above, cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530. A copy of the log shall be made available for inspection to representatives of DAQ upon request.
- q. To demonstrate Best Available Control Technology (BACT) and to ensure compliance with 15A NCAC 2D .0530 for emissions of fluorides, no additional controls are necessary. No monitoring, record keeping, or reporting is necessary for emissions of fluorides from the boiler (**ID No. ES-B3**).
- r. To demonstrate Best Available Control Technology (BACT) for emissions of sulfuric acid, the sulfur content of the coal burned in the boiler (**ID No. ES-B3**) shall not exceed 1.0 percent by weight. To ensure compliance with 15A NCAC 2D .0530 for emissions of sulfuric acid, the Permittee shall monitor the sulfur content of the coal by using coal supplier certification per lot received. The coal supplier certification shall be recorded in a log (written or electronic format) per lot and include the following information:
  - i. the name of the coal supplier;
  - ii. the maximum sulfur content of the coal received per lot;
  - iii. the gross calorific value (Btu) of the coal;
  - iv. a statement verifying that the methods used to determine the maximum sulfur content of the coal was in accordance with the following:
    - (A) sampling -- ASTM Method D 2234;
    - (B) preparation -- ASTM Method D 2013;
    - (C) gross calorific value (Btu) -- ASTM Method D-5865;
    - (D) moisture content --ASTM Method D 3173;
    - (E) sulfur content -- ASTM Method D 3177 or ASTM Method D 4239The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 for emissions of sulfuric acid if the sulfur content of the coal is not monitored and recorded.
- s. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by testing the boiler (**ID No. ES-B3**) for visible emissions utilizing EPA Reference Method No. 9, contained in 40 CFR Part 60 Appendix A or in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and requirements can be found in Section 3 - General Condition JJ. Testing shall be completed and the results submitted within one year of the effective date of the permit, or **September 4, 2004**, unless an alternate date is approved by the DAQ. If the results of this test are above the limit given in Section 2.1 A.6.b above (or 20% opacity), the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

- t. To assure compliance, on a daily basis, the Permittee shall observe the emission points of the boiler (**ID No. ES-B3**) for any visible emissions above normal. The Permittee shall establish “normal” for the source (**ID No. ES-B3**) in the first 30 days following permit issuance. If visible emissions from this boiler (**ID No. ES-B3**) is observed to be above normal, the Permittee shall either:
  - i. be deemed to be in noncompliance with 15A NCAC 2D .0530; or
  - ii. demonstrate that the percent opacity from the emission points of the boiler (**ID No. ES-B3**), in accordance with 15A NCAC 2D .0501(c)(8), is below the limit given in Section 2.1 A.6.b above. If the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530.
- u. The results of the monitoring for visible emissions shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log 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 .0530 if these records are not maintained.

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

- v. The Permittee shall submit a summary report of the coal supplier certifications 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 a certified statement signed by the responsible official that the records of coal supplier certification submitted represent all of the coal fired during the reporting period. All instances of deviations from the requirements of this permit must be clearly identified.
- w. The Permittee shall submit the results of any maintenance performed on the bag house (**ID No. CD-BH1**), and oxygen monitoring system within 30 days of a written request by the DAQ.
- x. The Permittee shall submit a summary report of monitoring and record keeping 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. All instances of deviations from the manufacturer’s recommendations for maintenance of the bag filters, and oxygen sensor must also be clearly identified.
- y. The Permittee shall report the hourly average exhaust gas oxygen concentrations, recorded per Section 2.1 A.6.n above, within 30 days after each calendar year quarter. The hourly exhaust gas oxygen concentrations are to be averaged using a 30-day rolling average. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the 30-day rolling averages of hourly exhaust gas concentrations (considering 5% monitoring downtime) from the facility are not provided.

**B. Coating Ranges (Continuous Dye Range #1 (ID No. ES-CDR1), Continuous Dye Range #2 (ID No. ES-CDR2), Continuous Dye Range #3 (ID N0. ES-CDR3), Textile Coating Range #1 (ID No. ES-CR1), Pilot Range #6 (ID No. ES-D6), Refinish Range #4 (ID No. ES-RR4), and the R&D Area (ID No. ES-RD)**

The following table provides a summary of limits and/or standards for the units that comprise the coating ranges.

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
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516(a)
Visible emissions	20 percent opacity	15A NCAC 2D .0521(d)
Volatile organic compounds	Work Practice Standards <b>See Section 2.2 A.1</b>	15A NCAC 2D .0958

Odors	<b>State-enforceable only</b> <b>See Section 2.2 A.2</b> Odorous emissions must be controlled	15A NCAC 2D .1806
Hazardous air pollutants	Less than 10 tons per year of any single HAP Less than 25 tons per year of any combination HAPs <b>See Section 2.2 A.4</b>	15A NCAC 2Q .0317 (MACT Avoidance)

**1. 15A NCAC 2D .0515: PARTICULATE EMISSIONS FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from these emission units (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**) that comprise the coating ranges shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]:

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

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

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

**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 the test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. As the coating ranges (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**) utilize a process which results in potential emissions of gaseous pollutants and no particulate matter, no monitoring/recordkeeping/reporting is required to show compliance with this regulation [15A NCAC 2D .0515].

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

- a. Emissions of sulfur dioxide from the combustion sources that comprise the coating ranges (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516(a)].

**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 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas or propane in the combustion units that comprise the coating ranges (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**).

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

- a. Visible emissions from these sources (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**), 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 the 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. As the emission sources in the coating ranges (**ID Nos. ES-CDR1 through ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**) are not expected to produce visible emissions in excess of the opacity limitations, no monitoring/recordkeeping/reporting is required to show compliance with this regulation [15A NCAC 2D .0521].

**C. Storage Silos (Coal Silo #1 (ID No. ES-CS1) and Coal Ash Silo #1 (ID No. ES-AS1))**

The following table provides a summary of limits and/or standards for the storage silos.

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(d)
Particulate matter	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded: Particulate Matter 0.001 lb/hour	15A NCAC 2D .0530
Odors	<b>State-enforceable only</b> <b>See Section 2.2 A.2</b> Odorous emissions must be controlled	15A NCAC 2D .1806

**1. 15A NCAC 2D .0515: PARTICULATE EMISSIONS FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from the coal and ash storage silos (**ID Nos. ES-CS1 and ES-AS1**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)].

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

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

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

**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 the test are above the limits given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from the coal storage silo (**ID Nos. ES-CS1**) shall be controlled by bag filter (**ID No. CD-CB1**) which has 18 square feet of surface area. Particulate matter emissions from the coal ash storage silo (**ID No. ES-AS1**) shall be controlled by bag filter (**ID No. CD-AB1**) which has 9.7 square feet of surface area. 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 shall include the following:
- i. an annual (for each 12 month period following the initial inspection) internal inspection of the baghouse and associated duct work for deterioration;
  - ii. analysis of representative bag samples for damage;
  - iii. annual bag replacement or more often if indicated by inspections; and

iv. a monthly visual inspection of the system ductwork and material collection unit for damage and leaks. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the bagfilters and ductwork for the storage silos (**ID Nos. ES-CS1 and ES-AS1**) are not inspected for deterioration and bag samples are not taken to determine bag condition and remaining bag life.

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

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection; and
  - iii. the results of any maintenance performed on the storage silo operations, duct work, and bag filters; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on the operations of the storage silos (**ID Nos. ES-CS1 and ES-AS1**) and bagfilters (**ID Nos. CD-CB1 and CD-AB1**) within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and record keeping 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 .0521: CONTROL OF VISIBLE EMISSIONS**

**Regulatory Requirements**

- a. Visible emissions from these sources (**ID Nos. ES-CS1 and ES-AS1**) 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 the test are above the limits given in Section 2.1 C.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 storage silos (**ID Nos. ES-CS1 and ES-AS1**) for any visible emissions above normal. The Permittee shall establish "normal" for the storage silos (**ID Nos. ES-CS1 and ES-AS1**) in the first 30 days following the effective date of the permit. If visible emissions from these sources (**ID Nos. ES-CS1 and ES-AS1**) 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 .0501(c)(8) is below the limit given in Section 2.1 C.2.a.i 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 monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. To ensure quality, entries in the log should be signed by personnel responsible for the effective operation of the silos. 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.

**3. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded [15A NCAC 2D .0530]:

Coal Silo ( <b>ID No. ES-CS1</b> )	Particulate Matter	0.001 lb/hr
Ash Silo ( <b>ID No. ES-AS1</b> )	Particulate Matter	0.001 lb/hr

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

- b. If testing is required for emissions of particulate matter, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test exceed the limit given in Section 2.1 C.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. Particulate matter emissions from the coal silo (**ID Nos. ES-CS1**) shall be controlled by bag filter (**ID No. CD-CB1**) with a filter area of 18 square feet. Particulate matter emissions from the ash silo (**ID No. ES-AS1**) shall be controlled by bag filter (**ID No. CD-AB1**) with a filter area of 9.7 square feet. To comply with the limitations and provisions of Section 2.1 C.3.a above, for particulate matter, and ensure that maximum control efficiency is maintained, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. an annual internal inspection of the bag house for deterioration, and
  - ii. a monthly external visual inspection of the system duct work, and material collection unit for damage and leaks.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the bag filters and duct work on the storage silos (**ID Nos. ES-CS1 and ES-AS1**) are not visually inspected for deterioration. The results of this inspection, and any maintenance performed on the bag filters, shall be recorded in a log which is described below.

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

- d. A log for the bag filters (**ID Nos. CD-CB1 and CD-AB1**) shall be kept on site and made available to Division of Air Quality personnel upon request. Any variance from manufacturer's recommendations or from those given in the permit (when different) shall be investigated with corrections made and date of actions recorded in the log. The log shall contain the following:
  - i. Records of any maintenance performed on the bag filter systems, and
  - ii. Results of inspections including a broken bag chart (where applicable).
 The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if records are not maintained.

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

- e. Within 30 days of a written request by the DAQ, the Permittee shall submit the results of any maintenance performed on bag filters (**ID Nos. CD-CB1 and CD-AB1**) and storage silos (**ID Nos. ES-CS1 and ES-**

AS1).

- f. The Permittee shall submit a summary report of monitoring and record keeping 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.

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

### A. Facility-wide affected emission sources

The following table provides a summary of limits and standards applicable facility wide:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work Practice Standards	15A NCAC 2D .0958
Odors	<b>State-enforceable only</b> Odorous emissions must be controlled	15A NCAC 2D .1806
Toxic air pollutants	<b>State-enforceable only</b> Toxic air pollutant emissions shall not exceed the levels listed in 2Q .0711 unless ambient standards are not exceeded	15A NCAC 2Q .0711
Hazardous air pollutants	Less than 10 tons per year of any single HAP Less than 25 tons per year of any combination HAPs	15A NCAC 2Q .0317 (MACT Avoidance)

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

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
  - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
  - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
  - iii. store wipe rags containing volatile organic compounds in closed containers,
  - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
  - v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into close able 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, and
  - vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
  - i. flush parts in the freeboard area,
  - ii. take precautions to reduce the pooling of solvent on and in the parts,
  - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
  - iv. not fill cleaning machines above the fill line, and
  - v. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

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

- c. To ensure 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:
  - i. the date and time of each inspection; and
  - ii. the results of each inspection noting whether or not noncompliant conditions were observed.
 If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

**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.

**STATE-ENFORCEABLE ONLY**

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

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

**STATE-ENFORCEABLE ONLY**

**3. 15A NCAC 2Q .0711: PERMIT REQUIREMENTS FOR TOXIC AIR POLLUTANTS**

- a. Pursuant to 15A NCAC 2Q .0711, 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 toxic air pollutant(s) from the facility, including fugitive emissions, will not exceed the toxic permit emission rate(s) (TPERs) specified in 15A NCAC 2Q .0711.
  - i. 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 TPER.
  - ii. 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.
  - iii. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the toxic air pollutant emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Acetaldehyde (75-07-0)				6.8
1,4-Dioxane (123-91-1)		12		
Formaldehyde (50-00-0)				0.04

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS  
for 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

- a. In order to remain classified a minor source for hazardous air pollutants and avoid applicability of this regulation, facility-wide emissions of hazardous air pollutants shall be less than:
  - i. 10 tons per year of each hazardous air pollutant, and
  - ii. 25 tons per year of all hazardous air pollutants combined.The Permittee shall be deemed in noncompliance with this condition and 2D .1111 if the HAP emissions exceed this limit.

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

- b. To ensure compliance with the limits above, the Permittee shall maintain monthly records of all coal fired in boilers (**ID Nos. ES-B1, ES-B2, and ES-B3**) as follows:
  - i. quantity of individual hazardous air pollutants in pounds used by the facility each month and for the 12-month period ending on that month, and
  - ii. quantity of all hazardous air pollutants in pounds used by the plant each month and for the 12-month period ending on that month.

Monthly emissions of hydrochloric acid shall be determined by calculation from the chlorine content of each coal lot as determined by analytical testing by the supplier in accordance with ASTM Method D-2361 and the amount of coal received with the associated lot.

- c. To ensure compliance with the limits above, the Permittee shall maintain monthly records of all dyes and coatings processed in the coating ranges (**ID Nos. ES-CDR1, ES-CDR2, ES-CDR3, ES-CR1, ES-D6, ES-RR4, and ES-RD**) as follows:
  - i. quantity of individual hazardous air pollutants in pounds used by the facility each month and for the 12-month period ending on that month, and
  - ii. quantity of all hazardous air pollutants in pounds used by the plant each month and for the 12-month period ending on that month.

Monthly emissions of hazardous air pollutants shall be determined by calculation of the hazardous air pollutant MSDS content of the dye or latex coating consumed and the quantity of the dyes and the latex consumed.

- 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 source is unaffected pursuant to 40 CFR 63.10(b)(3). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the records are not maintained.

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

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following records:
  - i. quantity of coal received and consumed
    - A. for each month during the semi-annual period, and
    - B. for each 12-month period ending on each month during the semi-annual period using a 12-month rolling total;
  - ii. quantity of all dyes and coatings consumed,
    - A. for each month during the semi-annual period, and
    - B. for each 12-month period ending on each month during the semi-annual period using a 12-month rolling total;
  - iii. greatest quantity in pounds of an individual hazardous air pollutant,
    - A. for each month during the semi-annual period, and
    - B. for each 12-month period ending on each month during the semi-annual period using a 12-month rolling total; and
  - iv. pounds of all hazardous air pollutants used,
    - A. for each month during the semi-annual period, and
    - B. for each 12-month period ending on each month during the semi-annual period using a 12-month rolling total.

## 5. Permit Shield for Nonapplicable Requirements

The Permittee is shielded from the following nonapplicable requirement as of the date of issuance of this permit based on information furnished with all previous applications. This shield does not apply to future modifications or changes in the method of operation. [15A NCAC 2Q .0512(a)(1)(B)]

- a. The following requirement is not applicable to boiler (**ID No. ES-3**):
  - i. 15A NCAC 2D .0524, NSPS promulgated in 40 CFR Part 60, Subpart Db.

## SECTION 3 - GENERAL CONDITIONS

This section describes terms and conditions applicable to this Title V facility. All references to the “permit” in this section apply only to Part I of the permit.

- 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

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. 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.

2. 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.
3. 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)(3)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

**CC. Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 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(e)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

**JJ. General Emissions Testing and Reporting Requirements** [15A NCAC 2Q .0508(i)(16)]

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application, the Permittee shall perform such testing in accordance with the appropriate EPA

reference method(s) as approved by the DAQ and follow the procedures outlined below. The Permittee must request **in writing** and receive approval from the DAQ for an alternate test method or procedure.

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
  - a. a certification of the test results by sampling team leader and facility representative;
  - b. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);
  - c. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
  - d. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
  - e. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
  - f. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ. The use of the test results beyond the stated objectives remains subject to the approval of the DAQ.

**KK. Reopening for Cause** [15A NCAC 2Q .0517]

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

**LL. Reporting Requirements for Non-Operating Equipment** [15A NCAC 2Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements

as prescribed by the permit shall be implemented within the monitoring period.

ATTACHMENT

**List of Acronyms**

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>CAA</b>	Clean Air Act
<b>DAQ</b>	Division of Air Quality
<b>DENR</b>	Department of Environment and Natural Resources
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAPS</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound