



ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

MICHAEL A. ABRACZINSKAS  
*Director*

**Enter XX or Calendar Date**

Mr. Rodney Poe  
Vice President/Plant Manager  
Vaughan-Bassett Furniture Company, Inc. – Elkin Furniture  
300 E. Grayson Street  
Galax, VA 24333

SUBJECT: Air Quality Permit No. 02467T30  
Facility ID: 8600009  
Vaughan-Bassett Furniture Company, Inc  
Elkin, Surry County  
Fee Class: Title V  
PSD Class: Major

Dear Mr. Poe:

In accordance with your completed Air Quality Permit Application for a renewal of your Title V permit received November 9, 2016, we are forwarding herewith Air Quality Permit No. 02467T30 to Vaughan-Bassett Furniture Company, Inc. – Elkin Furniture, 501 East Main Street (Highway 268), Elkin, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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

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

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

Surry County has not triggered increment tracking under PSD for any pollutants, so no tracking is required.

This Air Quality Permit shall be effective from (XXXX, 2017) until (XXXX, 2022), 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 Urva Patel at (919) 707-8405 and [Urva.Patel@ncdenr.gov](mailto:Urva.Patel@ncdenr.gov).

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section  
Division of Air Quality, NCDEQ

Enclosure

c: Heather Ceron, EPA Region 4  
Winston-Salem Regional Office  
Central Files  
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 02467T30

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

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>
IES-AST	One 1,000 gallon gasoline above ground storage tank
	One 250-gallon diesel fuel oil storage tank

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

## Summary of Changes to Permit

The following changes were made to the Vaughan-Bassett Furniture Company, Inc. – Elkin Plant, Air Permit No. 02467T30:

Page No.	Section	Description of Changes
Cover Letter	N/A	Updated cover letter with application number, permit numbers, dates, fee class, PSD increment statement, and Director name.
Permit Cover	N/A	Inserted new issuance, complete application date, and application number.
Cover and throughout	Cover and throughout	<ul style="list-style-type: none"> <li>• Updated regulation references from “2D” and “2Q” to “02D” and “02Q” to be consistent with regulation nomenclature.</li> </ul>
3	Section 1, table	<ul style="list-style-type: none"> <li>• Added MACT Subpart DDDDD (ID No. ES-4 and ES-5)</li> <li>• Added Notes at end of the table</li> </ul>
5	2.1 A	<ul style="list-style-type: none"> <li>• Added new row(s) in table for adding HAPs - MACT 5D, 02D .1109, 02D .1111, footnotes etc.</li> </ul>
9	2.1 A.6.b	<ul style="list-style-type: none"> <li>• Changed effective dates for 112(j) “Case-by-Case MACT” and 40 CFR 63, Subpart DDDDD “Boiler MACT”</li> </ul>
10	2.1 A.6.h	<ul style="list-style-type: none"> <li>• Removed “The first summary report shall be required on <b>July 30, 2013</b>” as they are still submitting semi-annual reports based on email from Regional.</li> </ul>
10	2.1 A.7	<ul style="list-style-type: none"> <li>• Condition added for 112(j) transition to Boiler MACT</li> </ul>
11	2.1 B	<ul style="list-style-type: none"> <li>• Added new row(s) in table for adding HAPs - MACT 5D, 02D .1109, 02D .1111, footnotes etc.</li> </ul>
16	2.1 B.7.b	<ul style="list-style-type: none"> <li>• Changed effective dates for 112(j) “Case-by-Case MACT” and 40 CFR 63, Subpart DDDDD “Boiler MACT”</li> </ul>
17	2.1 B.7.h	<ul style="list-style-type: none"> <li>• Removed “The first summary report shall be required on <b>July 30, 2013</b>” as they are still submitting semi-annual reports based on email from Regional.</li> </ul>
17	2.1 B.8	<ul style="list-style-type: none"> <li>• Condition added for 112(j) transition to Boiler MACT</li> </ul>
22	2.1 F	<ul style="list-style-type: none"> <li>• Changed emission source description from “Diesel-fired emergency engine” to “Diesel-fired firewater pump”</li> <li>• Updated condition with the emergency operation limitations</li> </ul>



## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
02467T30	02467T29	XXXX, 2017	XXXX, 2022

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

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

**Permittee:** **Vaughan-Bassett Furniture Company Inc.**  
**– Elkin Plant**

**Facility ID:** **8600009**

**Facility Site Location:** **501 East Main Street (Highway 268)**  
**City, County, State, Zip:** **Elkin, Surry County, North Carolina, 28621**

**Mailing Address:** **300 East Grayson Street**  
**City, State, Zip:** **Galax, Virginia, 24333**

**Application Number:** **8600009.16A**  
**Complete Application Date:** **November 9, 2016**

**Primary SIC Code:** **2511**  
**Division of Air Quality,** **Winston-Salem Regional Office**  
**Regional Office Address:** **450 Hanes Mill Road, Suite 300**  
**Winston-Salem, North Carolina, 27105**

Permit issued this the **XX** day of **XXXXXX**, **XXXX**

\_\_\_\_\_  
William D. Willets, P.E., Chief, Air Permitting Section  
By Authority of the Environmental Management Commission

## Table of Contents

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

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

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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

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

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5	ES-4 <sup>1</sup> Case-By-Case MACT; <sup>2</sup> MACT Subpart DDDDD	One firetube design wood/coal-fired boiler (29.3 million Btu per hour maximum heat input capacity)	CD-1A CD-1B	Two multicyclones (each with 20, nine-inch diameter tubes)
11	ES-5 <sup>1</sup> Case-By-Case MACT ; <sup>2</sup> MACT Subpart DDDDD	One firetube design wood/coal-fired boiler (29.1 million Btu per hour maximum heat input capacity)	CD-2A CD-2B	Two multicyclones (each with 20, nine-inch diameter tubes)
19 and 28	ES-1.1 through ES-1.9 MACT, Subpart JJ  ES-3, ES-12, and ES-14 MACT, Subpart JJ  ES-2 MACT. Subpart JJ  DO-1 and DO-2 MACT, Subpart JJ  ES-6 MACT, Subpart JJ  ES-PR MACT, Subpart JJ  ES-ST1 through ES-ST9 MACT,	Wood Furniture Finishing Operations consisting of:  -Nine dry filter-type spray booths  -Three dry filter-type spray booths  -One glaze stain baffle-type spray booth  -Two steam-heated drying ovens  -One gluing and assembly operation  -Finish pump room  -Nine finishing material day tanks	NA	NA

	<b>Subpart JJ</b>			
	<b>ES-15 MACT, Subpart JJ</b>	-One reverse roll coater, steam heated		
22	ES-7	Woodworking operations (hog and sanding, storage silo, machine and lathe rooms)	CD-4 CD-5 CD-6 CD-8 CD-9 CD-10 CD-16 CD-18	Cyclone #1 (8.6 feet in diameter) Cyclone #2 (8.6 feet in diameter) One bagfilter (4,408 square feet of filter area) One Micropul RAF II fabric filter (6,900 square feet of filter area) One bagfilter (8,294 square feet of filter area) One bagfilter (7,136 square feet of filter area) One bagfilter (5,869 square feet of filter area) One bagfilter (7,555 square feet of filter area)
22	ES-8	Woodworking operations (cutting, shaping, and sanding)	CD-11 CD-13 CD-17	One bagfilter (6,032 square feet of filter area) One bagfilter (5,235 square feet of filter area) One bagfilter (7,555 square feet of filter area)
22	ES-9	Expanded sanding operation	CD-12 CD-9	One cyclone (13.3 feet in diameter) One bagfilter (8,294 square feet of filter area)
22	ES-10	Post sanding operation	CD-9	One bagfilter (8,294 square feet of filter area)
24	ES-11A through ES-11H <b>MACT, Subpart DDDD</b>	Eight lumber-drying kilns (93,000 board-feet per week maximum capacity, Nos. A, B, C, D, and H; 100,000 board-feet per week maximum capacity, Nos. E, F, and G)	NA	NA



25	ES-16 MACT, Subpart ZZZZ	Diesel-fired Firewater Pump (191 bhp)	NA	NA
----	-----------------------------------	--	----	----

Note:

<sup>1</sup> The Permittee shall comply with this CAA § 112(j) standard until **May 19, 2019**.

<sup>2</sup> The Permittee shall comply with 40 CFR Part 43, Subpart DDDDD, beginning **May 20, 2019**.

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1 Emission Sources and Control Devices Specific Limitations and Conditions

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

#### A. One firetube design wood/coal-fired boiler (ID No. ES-4) and associated multicyclones (ID Nos. CD-1A and CD-1B)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	<b>POS - firing wood only or in combination with coal</b> $E = [(0.55)(Q_w) + (0.45)(Q_o)] / (Q_w + Q_o)$  Where: Q <sub>w</sub> =actual wood heat input rate (million Btu/hour) Q <sub>o</sub> =actual other fuel heat input rate (million Btu/hour)	15A NCAC 02D .0504
	<b>AOS - firing coal only</b> 0.45 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible Emissions	40 percent opacity	15A NCAC 02D .0521
Total Selected Metals Mercury HCl-Equivalent Carbon Monoxide	(These requirements are applicable until May 19, 2019)  <b>From coal firing:</b> 0.0004 pounds per million Btu 3e-06 pounds per million Btu 188.5 pounds per hour (all boilers combined) 133 ppmvd & 7% O <sub>2</sub>	15A NCAC 02D .1109
	<b>From wood firing:</b> 0.0002 pounds per million Btu 5e-06 pounds per million Btu 188.5 pounds per hour (all boilers combined) 269 ppmvd & 7% O <sub>2</sub>	
Hazardous Air Pollutants	(These requirements are applicable until May 19, 2019)  For No.2 Fuel Oil & Natural gas firing	15A NCAC 02D .1109

	Best Combustion Practices	
Hazardous Air Pollutants	(These requirements are applicable beginning May 20, 2019)  40 CFR Subpart DDDDD	15A NCAC 02D .1111

*Note:*

*POS = Primary Operating Scenario AOS = Alternative Operating Scenario*

1. The Permittee shall comply with this CAA §112(j) standard until **May 19, 2019**.
2. The Permittee shall comply with 40 CFR Part 43, Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters,” beginning **May 20, 2019**.

**1. ALTERNATIVE OPERATING SCENARIOS [15A NCAC 02Q .0508(p)]**

The Permittee, contemporaneously with making a change from one alternate operating scenario to another, shall record in a log (written or electronic format) the scenario under which it is operating.

***POS - Firing wood only or in combination with coal***

**2. 15A NCAC 02D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from this source (**ID No. ES-4**) shall not exceed an allowable emission rate as calculated by the following equation:

$$E=[(0.55)(Q_w)+(0.45)(Q_o)]/(Q_w+Q_o) \text{ [pounds per million Btu]}$$

Where,  $Q_w$ =actual wood heat input (million Btu per hour)

$Q_o$ =actual other fuels heat input (million Btu per hour).

- b. The Permittee shall burn no more than 180 pounds per hour of finishing material facility wide.

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

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.

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

- d. Particulate matter emissions from this source (**ID No. ES-4**) shall be controlled by two multicyclones (**ID Nos. CD-1A and CD-1B**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:

- i. a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
- ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclones' structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the multicyclones (**ID Nos. CD-1A and CD-1B**) and ductwork are not inspected and maintained.

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

- e. The results of inspection and maintenance 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 inspection;
- iii. a report of any maintenance performed on the multicyclones (**ID Nos. CD-1A and CD-1B**); and
- iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.

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

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones (**ID Nos. CD-1A and CD-1B**).
- g. 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 coal only***

**3. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the combustion of coal that are discharged from this source (**ID No. ES-4**) into the atmosphere shall not exceed 0.45 pounds per million Btu heat input.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by testing this source (**ID No. ES-4**) for particulate matter while firing coal only in accordance to 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 within 180 days of firing coal under normal operation, unless an alternate date is approved by the DAQ. Normal operation does not include periodic firing for building heat or maintenance. If the results of this test are above the limit given in Section 2.1 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

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

- d. Particulate matter emissions from this source (**ID No. ES-4**) shall be controlled by two multicyclones (**ID Nos. CD-1A and CD-1B**). To ensure 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. a monthly external visual inspection of the system ductwork, and material collection unit for leaks; and
  - ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclones' structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if the multicyclones (**ID Nos. CD-1A and CD-1B**) and ductwork are not inspected and maintained.

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

- e. The results of inspection and maintenance 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 inspection;
  - iii. a report of any maintenance performed on the multicyclones (**ID Nos. CD-1A and CD-1B**); and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if these records are not maintained.

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

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones (**ID Nos. CD-1A and CD-1B**).
- g. 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.

**4. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source (**ID No. ES-4**) shall not exceed 2.3 pounds per million Btu heat input.

Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance 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 02D .0516.

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

- c. No monitoring/recordkeeping is required for sulfur dioxide emissions from wood combustion in this source (**ID No. ES-4**).
- d. The maximum sulfur content of any coal received and burned in this source (**ID No. ES-4**) shall not exceed 1.5 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the coal exceeds this limit.
- e. To ensure compliance, the Permittee shall monitor the sulfur content of the coal by using coal supplier certification per total shipment received. The coal supplier certification shall be recorded in a log (written or electronic format) per total shipment and include the following information:
  - i. the name of the coal supplier;
  - ii. the maximum sulfur content of the coal received per total shipment;
  - iii. 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; and
  - iv. 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.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the coal is not monitored and recorded.

**Reporting** [15A NCAC 02Q .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. All instances of deviations from the requirements of this permit must be clearly identified.

**5. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source (**ID No. ES-4**) 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.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.5.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. To ensure compliance, once a day the Permittee shall observe the emission points of this source (**ID No. ES-4**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source (ID No. ES-4) are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable 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 (**ID No. ES-4**) in accordance with 15A NCAC 02D .2601 (EPA Method 9) for 12 minutes 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 02D .0521.

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

- d. The results of the monitoring 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 02D .0521 if these records are not maintained.

**Reporting** [15A NCAC 02Q .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.

**6. 15A NCAC 02D .1109: Case-by-Case MACT**

- a. Emissions from this source (**ID No. ES-4**) shall not exceed the emissions limits listed below:

i. From firing dry wood:

- (A) Total Selected Metals (TSM): 0.0002 lbs/mmBtu. TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, selenium. [Manganese shall not be included in the determination of TSM.]
- (B) Mercury (Hg): 5e-06 lbs/mmBtu
- (C) Hydrogen Chloride-equivalent (HCl): 188.5 lbs/hr from all boilers. HCl-equivalent is defined by the following equation:

$$E = E_{HCl} + E_{Cl_2} * (RfC_{HCl} / RfC_{Cl_2})$$

Where:

- E = HCl-equivlent emission rate (in lbs/hr)
- E<sub>HCl</sub> = HCl emission rate (in lbs/hr);
- E<sub>Cl<sub>2</sub></sub> = Cl<sub>2</sub> emission rate (in lbs/hr);
- RfC<sub>HCl</sub> = Reference concentration for HCl (20 µg/m<sup>3</sup>); and
- RfC<sub>Cl<sub>2</sub></sub> = Reference concentration for Cl<sub>2</sub> (0.20 µg/m<sup>3</sup>).

- (D) Carbon Monoxide (CO): 269 ppmvd, corrected to 7% oxygen

ii. From firing coal:

- (A) Total Selected Metals (TSM): 0.0004 lbs/mmBtu. TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, selenium. [Manganese shall not be included in the determination of TSM.]
- (B) Mercury (Hg): 3e-06 lbs/mmBtu
- (C) Hydrogen Chloride-equivalent (HCl): 188.5 lbs/hr from all boilers. HCl-equivalent is defined by the following equation:

$$E = E_{HCl} + E_{Cl_2} * (RfC_{HCl} / RfC_{Cl_2})$$

Where:

- E = HCl-equivlent emission rate (in lbs/hr)
- E<sub>HCl</sub> = HCl emission rate (in lbs/hr);
- E<sub>Cl<sub>2</sub></sub> = Cl<sub>2</sub> emission rate (in lbs/hr);
- RfC<sub>HCl</sub> = Reference concentration for HCl (20 µg/m<sup>3</sup>); and

RfC<sub>Cl2</sub> = Reference concentration for Cl<sub>2</sub> (0.20 µg/m<sup>3</sup>).

(D) Carbon Monoxide (CO): 133 ppmvd, corrected to 7% oxygen

The initial compliance date for these emission limitations and associated monitoring, recordkeeping, and reporting requirements is **June 3, 2013**. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 02D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.

- b. The Permittee shall comply with this CAA §112(j) standard until **May 19, 2019**. The initial compliance date for the applicable CAA §112(d) standard for “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters” is **May 20, 2019**.

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

- c. The Permittee shall conduct compliance tests for each pollutant listed in Section 2.1 A.6.a. above. The Permittee may chose either of the following methods for the compliance tests:
- Stack Testing**. Stack testing shall be performed in accordance with General Condition JJ in Section 3 of this permit. Tests may not be conducted during periods of startup, shutdown, or malfunction. Stack tests shall be conducted biannually. Following the initial stack test, each test shall be conducted between 22 and 26 months after the previous stack test.
  - Fuel Analysis**. The Permittee may use a fuel analysis to demonstrate compliance with the TSM, mercury, and/or HCl-equivalent standard. Fuel analyses shall be conducted annually. Following the initial fuel analysis, each analysis shall be conducted between 11 and 13 months after the previous analysis. If a fuel analysis shows a potential exceedance of an emission limitation in Section 2.1. A.6.a., the Permittee shall conduct a follow-up stack test of the affected sources within 90 days of the fuel analyses. If the follow-up stack test shows an exceedance of the limit, the Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109.

The initial compliance test shall be conducted within 180 days of firing the affected fuel under normal operation following the initial compliance date. Normal operation does not include periodic firing for building heat or maintenance. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if the required compliance tests are not conducted, or if the results of a compliance test exceed a limit in Section 2.1 A.6.a. above.

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

- d. The Permittee shall maintain opacity of exhaust from the affected control devices (**ID Nos. CD-1A and CD-1B**) at less than or equal to 20 percent (6-minute average) except for one 6-minute period per hour of not more than 27 percent. The monitoring and recordkeeping in Section 2.1 A.5.c and .d are sufficient to demonstrate compliance with this opacity requirement. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements or if the monitoring shows that opacity from the control device does not meet the opacity requirement.
- e. The monitoring and recording in Section 2.1 A.2.e and .f are sufficient to demonstrate compliance with the TSM limitation when firing dry wood as provided in Section 2.1 A.6.a.i. above. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements.
- f. The monitoring and recording in Section 2.1 A.3.d and .e are sufficient to demonstrate compliance with the TSM limitation when firing coal as provided in Section 2.1 A.6.a.ii. above. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements.

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

- g. **Notification of Compliance Status**. The Permittee must submit a Notification of Compliance Status that meets the requirements of 40 CFR 63.9(h)(2)(ii) before the close of business on the 60th day following the completion of the final required performance test and/or other initial compliance demonstration. The Notification of Compliance Status report must contain the following information, as applicable:
- A description of the affected source(s) including identification of which subcategory the source is in, the capacity of the source, a description of the add-on controls used on the source description of the fuel(s) burned, and justification for the fuel(s) burned during the performance test.
  - Summary of the results of all performance tests and calculations conducted to demonstrate initial compliance.
  - A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
- h. **Semiannual Summary Report**. The Permittee shall submit a summary report by January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-

month period between January and June. The report shall include the following:

- i. Company name and address;
- ii. Statement by a responsible official with that official’s name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
- iii. Date of report and beginning and ending dates of the reporting period;
- iv. A summary of the results of the annual performance tests;
- v. Signed statement indicating that no new types of fuel were fired in the affected sources.

**7. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

**Applicability** [40 CFR 63.7485, §63.7490(d)]

- a. For the existing source(s), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD. "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
  - i. The Permittee shall comply with the CAA §112(j) standard in 2.1 A.6 through **May 19, 2019**. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. Note that the requirements of this standard may require action on behalf of the Permittee prior to May 20, 2019.

**B. One firetube design wood/coal-fired boiler (ID No. ES-5) and associated multicyclones (ID Nos. CD-2A and CD-2B)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	<i>POS - firing wood only</i> 0.47 pounds per million Btu heat input	15A NCAC 02D .0504
	<i>AOS - firing coal only</i> 0.38 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Sulfur dioxide	Less than 40 tons per year emission limitation 1.2 percent by weight sulfur content limit on coal Less than 1,750 tons per year of coal burned limitation	15A NCAC 02Q .0317 (PSD Avoidance)
Nitrogen oxides	Less than 40 tons per year emission limitation Less than 10,179 tons per year of wood burned limitation	15A NCAC 02Q .0317 (PSD Avoidance)
Particulate matter	Cannot burn wood and coal at the same time	15A NCAC 02Q .0317 (PSD Avoidance)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Total Selected Metals Mercury HCl-Equivalent Carbon Monoxide  Total Selected Metals Mercury HCl-Equivalent Carbon Monoxide	(These requirements are applicable until May 19, 2019)  <b>From coal firing:</b> 0.0004 pounds per million Btu 3e-06 pounds per million Btu 188.5 pounds per hour (all boilers combined) 133 ppmvd & 7% O <sub>2</sub>  <b>From wood firing:</b> 0.0002 pounds per million Btu 5e-06 pounds per million Btu 188.5 pounds per hour (all boilers combined) 269 ppmvd & 7% O <sub>2</sub>	15A NCAC 02D .1109
Hazardous Air Pollutants	(These requirements are applicable until May 19, 2019)  <u>For No.2 Fuel Oil &amp; Natural gas firing</u> Best Combustion Practices	15A NCAC 02D .1109
Hazardous Air Pollutants	(These requirements are applicable beginning May 20, 2019)  40 CFR Subpart DDDDD	15A NCAC 02D .1111

*Note:*

POS = Primary Operating Scenario AOS = Alternative Operating Scenario

1. The Permittee shall comply with this CAA §112(j) standard until **May 19, 2019**.
2. The Permittee shall comply with 40 CFR Part 43, Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters,” beginning **May 20, 2019**.

**1. ALTERNATIVE OPERATING SCENARIOS [15A NCAC 02Q .0508(p)]**

The Permittee, contemporaneously with making a change from one alternate operating scenario to another, shall record in a log (written or electronic format) the scenario under which it is operating.

**POS - Firing wood fuel only**

**2. 15A NCAC 02D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the combustion of wood that are discharged from this source (**ID No. ES-5**) into the atmosphere shall not exceed 0.47 pounds per million Btu heat input.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.

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

- c. Particulate matter emissions from this source (**ID No. ES-5**) shall be controlled by two multicyclones (**ID Nos. CD-2A and CD-2B**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:
  - i. a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
  - ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclone's structural integrity.



The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the multicyclones (**ID Nos. CD-2A and CD-2B**) and ductwork are not inspected and maintained.

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

- d. The results of inspection and maintenance 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 inspection;
  - iii. a report of any maintenance performed on the multicyclones (**ID Nos. CD-2A and CD-2B**); and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.

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

- e. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones (**ID Nos. CD-2A and CD-2B**).
- f. 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 coal only**

**3. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the combustion of coal that are discharged from this source (**ID No. ES-5**) into the atmosphere shall not exceed 0.38 pounds per million Btu heat input.

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by testing this source (**ID No. ES-5**) for particulate matter while firing coal only in accordance to 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 within 180 days of firing on coal under normal operation, unless an alternate date is approved by the DAQ. Normal operation does not include periodic firing for building heat or maintenance. If the results of this test are above the limit given in Section 2.1 B.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

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

- d. Particulate matter emissions from this source (**ID No. ES-5**) shall be controlled by two multicyclones (**ID Nos. CD-2A and CD-2B**). To ensure 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. a monthly external visual inspection of the system ductwork, and material collection unit for leaks; and
  - ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclones' structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if the multicyclones (**ID Nos. CD-2A and CD-2B**) and ductwork are not inspected and maintained.

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

- e. The results of inspection and maintenance 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 inspection;
  - iii. a report of any maintenance performed on the multicyclones (**ID Nos. CD-2A and CD-2B**); and

iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508]

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones (**ID Nos. CD-2A and CD-2B**).
- g. 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.

**4. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source (**ID No. ES-5**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.4.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

- c. The maximum sulfur content of any coal received and burned in this source (**ID No. ES-5**) shall not exceed 1.5 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the coal exceeds this limit.
- d. To ensure compliance, the Permittee shall monitor the sulfur content of the coal by using coal supplier certification per total shipment received. The coal supplier certification shall be recorded in a log (written or electronic format) per total shipment and include the following information:
  - i. the name of the coal supplier;
  - ii. the maximum sulfur content of the coal received per total shipment;
  - iii. 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; and
  - iv. 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.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the coal is not monitored and recorded.

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

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

**5. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results

of this test are above the limit given in Section 2.1 B.5.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. To ensure compliance, once a day the Permittee shall observe the emission points of this source (**ID No. ES-5**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source (**ID No. ES-5**) are observed to be above normal, the Permittee shall either:
- take appropriate action to correct the above-normal emissions as soon as practicable within the monitoring period and record the action taken as provided in the recordkeeping requirements below; or
  - demonstrate that the percent opacity from the emission points of the emission source (**ID No. ES-5**) in accordance with 15A NCAC 02D .2601 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1 B.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 02D .0521.

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

- d. The results of the monitoring 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:
- the date and time of each recorded action;
  - 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
  - the results of any corrective actions performed.
- The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the 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 02Q .0317 AVOIDANCE CONDITIONS  
for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid the applicability of the regulation, the total annual sulfur dioxide emissions and total nitrogen oxides emissions from this source (**ID No. ES-5**) shall each be less than 40 tons each per consecutive twelve-month period. To ensure nitrogen oxides emissions do not exceed this level, wood and coal shall not be burned simultaneously, and the amount of wood combusted per 12-month consecutive period shall not exceed 10,179 tons. To limit the sulfur dioxide emissions to this level, the sulfur content of the coal burned in this source (**ID No. ES-5**) shall not exceed 1.2 percent by weight, and the amount of coal fired shall be limited to no more than 1,750 tons per consecutive 12-month period.

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

- b. If emissions testing is required, the Permittee shall perform such testing in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.1 B.6.a, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- c. The use of coal in this source (**ID No. ES-5**) shall be limited such that sulfur dioxide emissions shall not exceed 40 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a logbook (written or electronic format), according to the following formula:

$$\text{Total actual lb of sulfur dioxide emitted} = X[(38)(S) \text{ lb SO}_2/\text{ton coal}] + Y(0.4 \text{ lb SO}_2/\text{ton wood})$$

Where: X is the amount of coal used in tons  
Y is the amount of wood burned in tons  
S is the percent sulfur in the coal

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not kept or if sulfur dioxide emissions exceed the limit in Section 2.1 B.6.a.

- d. The combustion of wood in this source (**ID No. ES-5**) shall be limited such that nitrogen oxides emissions shall be less than 40 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a log (written or electronic format), according to the following formula:

$$\text{Total actual lb of nitrogen oxides emitted} = X(11.0 \text{ lb NO}_x/\text{ton coal}) + Y(7.84 \text{ lb NO}_x/\text{ton wood})$$

Where: X is the amount of coal burned in tons  
 Y is the amount of wood burned in tons

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records are not kept or the nitrogen oxides emissions exceed the limit in Section 2.1 B.6.a.

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

- e. The Permittee shall submit a 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. All instances of deviations from the requirements of this permit must be clearly identified. The report shall contain the following:
  - i. The monthly sulfur dioxide emissions for the previous 17 months. The emissions shall be calculated for each of the 12-month periods over the previous 17 months;
  - ii. The monthly quantities of coal consumed for the previous 17 months;
  - iii. The monthly nitrogen oxides emissions for the previous 17 months. The emissions shall be calculated for each of the 12-month periods over the previous 17 months;
  - iv. The monthly quantities of wood burned for the previous 17 months; and
 All instances of deviations from the requirements of this permit must be clearly identified.

**7. 15A NCAC 02D .1109: Case-by-Case MACT**

- a. Emissions from this source (**ID No. ES-5**) shall not exceed the emissions limits listed below:
  - i. From firing dry wood:
    - (A) Total Selected Metals (TSM): 0.0002 lbs/mmBtu. TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, selenium. [Manganese shall not be included in the determination of TSM.]
    - (B) Mercury (Hg): 5e-06 lbs/mmBtu
    - (C) Hydrogen Chloride-equivalent (HCl): 188.5 lbs/hr from all boilers. HCl-equivalent is defined by the following equation:

$$E = E_{HCl} + E_{Cl_2} * (Rf_{HCl} / Rf_{Cl_2})$$

Where:

- E = HCl-equivlent emission rate (in lbs/hr)
- E<sub>HCl</sub> = HCl emission rate (in lbs/hr);
- E<sub>Cl<sub>2</sub></sub> = Cl<sub>2</sub> emission rate (in lbs/hr);
- Rf<sub>HCl</sub> = Reference concentration for HCl (20 µg/m<sup>3</sup>); and
- Rf<sub>Cl<sub>2</sub></sub> = Reference concentration for Cl<sub>2</sub> (0.20 µg/m<sup>3</sup>).

(D) Carbon Monoxide (CO): 269 ppmvd, corrected to 7% oxygen

- ii. From firing coal:
  - (A) Total Selected Metals (TSM): 0.0004 lbs/mmBtu. TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, selenium. [Manganese shall not be included in the determination of TSM.]
  - (B) Mercury (Hg): 3e-06 lbs/mmBtu
  - (C) Hydrogen Chloride-equivalent (HCl): 188.5 lbs/hr from all boilers. HCl-equivalent is defined by the following equation:

$$E = E_{HCl} + E_{Cl_2} * (Rf_{HCl} / Rf_{Cl_2})$$

Where:

E	=	HCl-equivlent emission rate (in lbs/hr)
$E_{HCl}$	=	HCl emission rate (in lbs/hr);
$E_{Cl_2}$	=	$Cl_2$ emission rate (in lbs/hr);
$Rf_{HCl}$	=	Reference concentration for HCl ( $20 \mu\text{g}/\text{m}^3$ ); and
$Rf_{Cl_2}$	=	Reference concentration for $Cl_2$ ( $0.20 \mu\text{g}/\text{m}^3$ ).

(D) Carbon Monoxide (CO): 133 ppmvd, corrected to 7% oxygen

The initial compliance date for these emission limitations and associated monitoring, recordkeeping, and reporting requirements is **June 3, 2013**. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 02D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.

- b. The Permittee shall comply with this CAA §112(j) standard until **May 19, 2019**. The initial compliance date for the applicable CAA §112(d) standard for “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters” is **May 20, 2019**.

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

- c. The Permittee shall conduct compliance tests for each pollutant listed in Section 2.1 B.7.a. above. The Permittee may chose either of the following methods for the compliance tests:
1. **Stack Testing**. Stack testing shall be performed in accordance with General Condition JJ in Section 3 of this permit. Tests may not be conducted during periods of startup, shutdown, or malfunction. Stack tests shall be conducted biannually. Following the initial stack test, each test shall be conducted between 22 and 26 months after the previous stack test.
  2. **Fuel Analysis**. The Permittee may use a fuel analysis to demonstrate compliance with the TSM, mercury, and/or HCl-equivalent standard. Fuel analyses shall be conducted annually. Following the initial fuel analysis, each analysis shall be conducted between 11 and 13 months after the previous analysis. If a fuel analysis shows a potential exceedance of an emission limitation in Section 2.1 B.7.a., the Permittee shall conduct a follow-up stack test of the affected sources within 90 days of the fuel analyses. If the follow-up stack test shows an exceedance of the limit, the Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109.

The initial compliance test shall be conducted within 180 days of firing the affected fuel under normal operation following the initial compliance date. Normal operation does not include periodic firing for building heat or maintenance. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if the required compliance tests are not conducted, or if the results of a compliance test exceed a limit in Section 2.1 B.7.a. above.

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

- d. The Permittee shall maintain opacity of exhaust from the affected control devices (**ID Nos. CD-2A and CD-2B**) at less than or equal to 20 percent (6-minute average) except for one 6-minute period per hour of not more than 27 percent. The monitoring and recordkeeping in Section 2.1 B.5.c and .d are sufficient to demonstrate compliance with this opacity requirement. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements or if the monitoring shows that opacity from the control device does not meet the opacity requirement.
- e. The monitoring and recording in Section 2.1 B.2.d and .e are sufficient to demonstrate compliance with the TSM limitation when firing dry wood as provided in Section 2.1 B.7.a.i. above. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements.
- f. The monitoring and recording in Section 2.1 B.3.d and .e are sufficient to demonstrate compliance with the TSM limitation when firing coal as provided in Section 2.1 B.7.a.ii. above. The Permittee shall be deemed in non-compliance with 15A NCAC 02D .1109 if it fails to meet these monitoring and recordkeeping requirements.

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

- g. **Notification of Compliance Status**. The Permittee must submit a Notification of Compliance Status that meets the requirements of 40 CFR 63.9(h)(2)(ii) before the close of business on the 60th day following the completion of the final required performance test and/or other initial compliance demonstration. The Notification of Compliance Status report must contain the following information, as applicable:
- i. A description of the affected source(s) including identification of which subcategory the source is in, the capacity of the source, a description of the add-on controls used on the source description of the fuel(s) burned, and justification for the fuel(s) burned during the performance test.

- ii. Summary of the results of all performance tests and calculations conducted to demonstrate initial compliance.
- iii. A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
- h. **Semiannual Summary Report.** The Permittee shall submit a summary report by January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall include the following:
  - i. Company name and address;
  - ii. Statement by a responsible official with that official’s name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
  - iii. Date of report and beginning and ending dates of the reporting period;
  - iv. A summary of the results of the annual performance tests;
  - v. Signed statement indicating that no new types of fuel were fired in the affected sources.

**8. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

**Applicability** [40 CFR 63.7485, §63.7490(d)]

- a. For the existing source(s), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD. "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
  - i. The Permittee shall comply with the CAA §112(j) standard in 2.1 B.7 through **May 19, 2019**. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. Note that the requirements of this standard may require action on behalf of the Permittee prior to May 20, 2019.

**C. Wood Furniture finishing operations including:**

- Nine dry filter-type spray booths (ID Nos. ES-1.1 through ES-1.9)
- Three dry filter-type spray booths (ID Nos. ES-3, ES-12, ES-14)
- One glaze stain baffle-type spray booth (ID No. ES-2)
- One reverse roll coater (ID No. ES-15)
- Two steam-heated drying ovens (ID Nos. DO-1, DO-2)
- Gluing and assembly operation (ID No. ES-6)
- Finish pump room (ID No. ES-PR)
- Nine finish storage day tanks (ID Nos. ES-ST1 through ES-ST9)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile organic compounds	<b>(ID Nos. ES-3, ES-12, and ES-14 combined)</b> Less than 40 tons per consecutive 12-month period  <b>(ID No. ES-15 only)</b> Less than 40 tons per consecutive 12-month period	15A NCAC 02Q .0317 (PSD Avoidance)
Hazardous air pollutants	<b>See Section 2.2 A</b>	15A NCAC 02D .1111 (40 CFR 63, Subpart JJ)

**1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS**

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be

exceeded beyond the property line.

Dry filter-type spray booths can include paper, metal, plastic, or other dry filter media.

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

- b. Particulate matter emissions from these sources (**ID Nos. ES- 1, ES-3, ES-12, ES-14, and ES-2**) shall be controlled by dry filters or baffles and/or adequate ductwork. To ensure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:
  - i. weekly inspection of the spray booths' filters noting the condition; and
  - ii. annual (for each 12 month period following initial inspection) inspection of the associated ductwork noting structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the filters and ductwork are not inspected and maintained.

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

- c. The results of inspection and maintenance for these sources (**ID Nos. ES- 1, ES-3, ES-12, ES-14, and ES-2**) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection; and
  - iii. the results of maintenance performed on any filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

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

- d. The Permittee shall submit the results of any maintenance performed on the filters or ductwork within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-1, ES-3, ES-12, ES-14, and ES-2**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. To ensure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-1, ES-3, ES-12, ES-14, and ES-2**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources (**ID Nos. ES-1, ES-3, ES-12, ES-14, and ES-2**) are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable 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 (**ID Nos. ES-1, ES-3, ES-12, ES-14, and ES-2**) in accordance with 15A NCAC 02D .2601 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a above.

If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:

- i. the date and time of each recorded action;
- ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
- iii. the results of any corrective actions performed.

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

**Reporting** [15A NCAC 02Q .0505(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 02Q .0317 AVOIDANCE CONDITIONS  
for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of this regulation, these sources (**ID Nos. ES-3, ES-12, and ES-14**) combined shall discharge into the atmosphere less than 40 tons of VOCs per consecutive 12-month period.
- b. In order to avoid applicability of this regulation, this source (**ID No. ES-15**) shall discharge into the atmosphere less than 40 tons of VOCs per consecutive 12-month period.

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

- c. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of each type of VOC-containing material consumed during the month for each source by the VOC content of the material. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the amounts of VOC containing materials or the VOC emissions are not monitored and recorded.

- d. The Permittee shall maintain a record of the following for these sources (**ID Nos. ES-3, ES-12, and ES-14**) for each calendar month:

- i. total quantity (in gallons) of each type of coating used at each booth;
- ii. VOC content (in lb VOC/gal coating) of each type of coating used;
- iii. total, combined monthly VOC emissions (in tons/month); and
- iv. total, combined VOC emissions for the previous consecutive 12-month period (in tons/12-month).

Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained or if VOC emissions exceed the limit provided in Section 2.1 C.3.a above.

- e. The Permittee shall maintain a record of the following for this source (**ID No. ES-15**) for each calendar month:

- i. total quantity (in gallons) of each type of coating used;
- ii. VOC content (in lb VOC/gallon coating) of each type of coating used;
- iii. total monthly VOC emissions (in tons/month); and
- iv. total VOC emissions for the previous consecutive 12-month period (in tons/12-month).

Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained or if VOC emissions exceed the limit provided in Section 2.1 C.3.b above.

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

- f. 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. The report shall contain the following:

- i. the combined monthly VOC emissions totals for these sources (**ID Nos. ES-3, ES-12, and ES-14**) for the previous 17 months;
- ii. the combined 12-month rolling VOC emission totals for these sources (**ID Nos. ES-3, ES-12, and ES-14**) for the previous 17 months;
- iii. the monthly VOC emission totals for this source (**ID No. ES-15**) for the previous 17 months; and
- iv. the 12-month rolling VOC average emission totals for this source (**ID No. ES-15**) for the previous 17 months.

**D. Woodworking operations (ID No. ES-7) with associated:**

- simple cyclone (ID No. CD-4) in series with one bagfilter (ID No. CD-9),
- simple cyclone (ID No. CD-5) in series with one bagfilter (ID No. CD-6),



- bagfilter (ID No. CD-8),
- bagfilter (ID No. CD-10),
- bagfilter (ID No. CD-16)
- bagfilter (ID No. CD-18), and

**Woodworking operations (ID No. ES-8) with associated bagfilters (ID Nos. CD-11, CD-13 and CD-17)**

**Expanded sanding operation (ID No. ES-9) with associated simple cyclone (ID No. CD-12) in series with one bagfilter (ID No. CD-8)**

**Post sanding operation (ID No. ES-10) with associated bagfilter (ID No. CD-9)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521

**1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS**

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate ductwork and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

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

b. Particulate matter emissions from these sources (ID Nos. ES-7 through ES-10) shall be controlled by three cyclones (ID Nos. CD-4, CD-5, and CD-12) and nine bagfilters (ID Nos. CD-6, CD-8 through CD-11, CD-13, and CD-16) as described above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:

- i. monthly external inspection of the ductwork, cyclones and bagfilters noting the structural integrity; and
- ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and bagfilters are not inspected and maintained.

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

c. The results of inspection and maintenance for the bagfilters (ID Nos. CD-6, CD-8 through CD-11, CD-13, and CD-16) and cyclones (ID Nos. CD-4, CD-5, and CD-12) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:

- i. the date and time of each recorded action;
- ii. the results of each inspection; and
- iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the above records are not maintained.

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

d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.

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

**2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-7 thru ES-10**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. To ensure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. ES-7 through ES-10**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources (**ID Nos. ES-7 through ES-10**) are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable 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 (**ID Nos. ES-7 through ES-10**) in accordance with 15A NCAC 02D .2601 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1 D.2.a above.

If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

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

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

**Reporting** [15A NCAC 02Q .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.

**E. Lumber Drying Kilns (ID Nos. ES-11A through ES-11H)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products No applicable requirements other than initial notification	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

**F. Diesel-fired Firewater pump (ID No. ES-16)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.”	15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)

**1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

**Applicability** [40 CFR 63.6585, 63.6590(a)(1)(ii)]

- a. For these emission source(s) (existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

**Definitions and Nomenclature**

- b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.6675 shall apply.

**Applicability Date** [40 CFR 63.6595(a)(1)]

- c. The Permittee shall comply with the applicable emission limitations, operating limitations and other requirements no later than May 3, 2013.

**Notifications** [40 CFR 63.6645(a)(5)]

- d. The Permittee has no notification requirements.

**General Provisions** [40 CFR 63.6665]

- e. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart ZZZZ.

**Operating and Maintenance Requirements** [15A NCAC 02Q .0508(b)]

- f. During periods of startup of the internal combustion (IC) engine, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6602 and 63.6625(h)]
- g. Except during periods of startup of the IC engine, the Permittee shall:
  - i. Change oil and filter every 500 hours of operation or annually, whichever comes first;
  - ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
  - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary

[40 CFR 63.6602]
- h. The Permittee shall have the option to utilize the oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in Section 2.1 F.1.g. [40 CFR 63.6602, 63.6625(i)]
- i. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in condition 2.1.F.1.g., or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR 63.6602, Table 2C]
- j. The Permittee shall be in compliance with the emission limitations, operating limitations and other requirements in this subpart that apply at all times. [40 CFR 63.6605(a)]

- k. The Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]
- l. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) and 63.6640(a), Table 6]
- m. In order for the engine to be considered an emergency stationary RICE under this condition, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (1) through (3) below, is prohibited.
  - (1) There is no time limit on the use of emergency stationary RICE in emergency situations.
  - (2) The Permittee may operate the emergency stationary RICE for any combination of the purposes specified in paragraph (i) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (3) below counts as part of the 100 hours per calendar year allowed by this paragraph (2).
    - (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine.  
The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
  - (3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (m)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.  
[40 CFR 63.6640(f)]
- n. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Sections 2.1 F.1.e. through m** are not met.

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

- o. The Permittee shall install a non-resettable hour meter on the IC engine if one is not already installed. [40 CFR 63.6625(f)]

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

- p. The Permittee shall keep the following:
  - i. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.6655(a)(1)]
  - ii. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR 63.6655(a)(2)]
  - iii. Records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63.6655(a)(4)]
  - iv. Records of actions taken during periods of malfunction to minimize emissions in accordance with Section 2.1 F.1.k, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(5)]
  - v. Records of the maintenance conducted on the RICE pursuant to Section 2.1 F.1.l. [40 CFR 63.6655(d) and (e)]
  - vi. Records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.  
[40 CFR 63.6655(f)]

- q. The Permittee shall keep each record in a form suitable and readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(a), (b), (c)]

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

- r. 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 noncompliance must be clearly identified. [40 CFR 63.6640(b), (e), and 63.6650(f)]
  - i. The summary report shall also include any reporting required under Section 2.1 F.1.i, as necessary. [40 CFR 63.6602, Table 2C]
- s. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Sections 2.1 F.1.o through r are not met.

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

### A. Affected Source - All facilities subject to 40 CFR Part 63 Subpart JJ: NATIONAL EMISSIONS STANDARD FOR WOOD FURNITURE MANUFACTURING OPERATIONS

#### One furniture finishing operation including:

- Nine dry filter-type spray booths (ID Nos. ES-1.1 through ES-1.9)**
- Three dry filter-type spray booths (ID Nos. ES-3, ES-12, ES-14)**
- One glaze stain baffle-type spray booth (ID No. ES-2)**
- One reverse roll coater (ID No. ES-15)**
- Two steam-heated drying ovens (ID Nos. DO-1, DO-2)**
- Gluing and assembly operation (ID No. ES-6)**
- Finish pump room (ID No. ES-PR)**
- Nine finish storage tanks (ID Nos. ES-ST1 through ES-ST-9)**

#### APPLICABILITY

1. The wood furniture manufacturing operations (ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14, ES-2, ES-15, DO-1, DO-2, ES-6, ES-PR, and ES-ST1 through ES-ST9) shall comply with all requirements of 15A NCAC 02D .1111 "Maximum Achievable Control Technology" and 40 CFR Part 63 Subpart JJ "National Emission Standards for Wood Furniture Manufacturing Operations." [40 CFR 63.800]

#### DEFINITIONS AND NOMENCLATURE

2. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.801 shall apply.

#### REGULATED POLLUTANTS

3. Volatile Hazardous Air Pollutants (VHAPs), Volatile Organic Compounds (VOCs), and Organic HAP solvent as defined in 40 CFR 63.801.

#### GENERAL PROVISIONS

4. The Permittee shall comply with the requirements of 40 CFR Part 63 Subpart A "General Provisions," according to the applicability of Subpart A to such sources, as identified in Table 1 of 40 CFR Part 63 Subpart JJ.

#### WORK PRACTICE STANDARDS

5. The Permittee shall adhere to the work practice standards as specified by 40 CFR 63.803.
- a. **Recordkeeping Requirements** - The Permittee shall prepare, maintain, and follow a written work practice implementation plan in accordance with 40 CFR 63.806(e) that defines environmentally desirable work practices for each wood furniture manufacturing operation and addresses each of the work practice standards specified in items (i) through (xi), below:
  - i. Operator training - in accordance with 40 CFR 63.803(b),
  - ii. Inspection and maintenance plan - in accordance with 40 CFR 63.803(c),
  - iii. Cleaning and wash-off solvent accounting system - in accordance with 40 CFR 63.803(d),
  - iv. Chemical composition of cleaning and wash-off solvents - in accordance with 40 CFR 63.803(e),
  - v. Spray booth cleaning - in accordance with 40 CFR 63.803(f),
  - vi. Storage requirements - in accordance with 40 CFR 63.803(g),
  - vii. Application equipment requirements - in accordance with 40 CFR 63.803(h). Effective November 21, 2014 conventional air spray guns are allowed only when emissions are vented to a HAP control device,
  - viii. Line cleaning - in accordance with 40 CFR 63.803(i),
  - ix. Gun cleaning - in accordance with 40 CFR 63.803(j),
  - x. Wash-off operations - in accordance with 40 CFR 63.803(k), and
  - xi. Formulation assessment plan - in accordance with 40 CFR 63.803(l).
- b. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(8) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(8) and 63.807(c). The Permittee shall follow the requirements in 40 CFR 63.807(e) as required and 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

**FINISHING OPERATIONS**

- 6. Per 40 CFR 63.804(a)(4), the Permittee has chosen to use the **compliant coatings** compliance option for the finishing operations (**ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14, ES-2, ES-15, DO-1, DO-2, ES-6, ES-PR, and ES-ST1 through ES-ST9**).
- a. **Emission Limits** - The Permittee shall comply with all provisions of 40 CFR 63.802(a)(1) and 63.804(a)(2) as applicable to the finishing operations. All thinners, stains, washcoats, sealers, topcoats, basecoats, and enamels used at the facility shall meet the emission limitations as detailed in the following table:

<b>Emission Source</b>	<b>Regulated material</b>	<b>Emission Limitation</b>
<i>Existing Affected Sources</i> <b>(ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14, ES-2, DO-1, DO-2, ES-6, ES-PR, and ES-ST1 through ES-ST9)</b>	Thinners	10% by weight HAP
	Stains, washcoats, sealers, topcoats, basecoats, and enamels	1.0 lb VHAP/lb (or kg VHAP/kg) solids, as applied
	Washcoat, basecoat, or enamel formulated on-site	Coatings - 1.0 lb VHAP/lb (or kg VHAP/kg) solids Thinners - 3.0% by weight VHAP
<i>New Affected Sources</i> <b>(ID No. ES-15)</b>	Thinners	10% by weight HAP
	Stains	1.0 lb VHAP/lb (or kg VHAP/kg) solids, as applied
	Washcoats, sealers, topcoats, basecoats, and enamels	0.8 lb VHAP/lb (or kg VHAP/kg) solids, as applied
	Washcoat, basecoat, or enamel formulated	Coatings – 0.8 lb VHAP/lb (or kg VHAP/kg) solids Thinners - 3.0% by weight VHAP

- b. **Compliance Procedures and Monitoring Requirements** - Emission sources (**ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14, and ES-2**) are using noncontinuous coaters. The Permittee shall demonstrate that only compliant thinners are used and that all stains, washcoats, sealers, topcoats, basecoats, and enamels are compliant, as applied, in accordance with 40 CFR 63.804(g)(2).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.804(g)(2), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(2) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(2) and 63.807(c). The Permittee shall follow the requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

**CLEANING OPERATIONS**

- 7 a. **Emission Limits** - The Permittee shall comply with the limits of 40 CFR 63.802(a)(3) applicable to the strippable spray booth operations (**ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14 and ES-2**) as detailed in the following table:

<b>Emission Source</b>	<b>Regulated material</b>	<b>Emission Limitation</b>
<b>(ID Nos. ES-1.1 through ES-1.9, ES-3, ES-12, ES-14 and ES-2)</b>	strippable spray booth coatings	0.8 lb VOC per lb (or kg VHAP/kg) solids, as applied

- b. **Compliance Procedures and Monitoring Requirements** - The Permittee shall demonstrate that only compliant strippable spray booth coatings are used in accordance with 40 CFR 63.804(g)(7).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).

- d. **Recordkeeping Requirements** - The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(3), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(7) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(7) and 63.807(c). The Permittee shall follow the requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

**CONTACT ADHESIVE OPERATIONS**

- 8. a. **Emission Limits** - The Permittee shall comply with all provisions of 40 CFR 63.802(a)(2) and 63.804(b-c) as applicable to the contact adhesive operations (**ID No. ES-6**) as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
ES-6	foam contact adhesives used in products which meet flammability requirements per California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from local, State, or Federal fire regulatory agencies	1.8 kg VHAP per kg solids (1.8 lb VHAP per lb solids), as applied
ES-6	all other contact adhesives	1.0 kg VHAP per kg solids (1.0 lb VHAP per lb solids), as applied

- b. **Compliance Procedures and Monitoring Requirements** - When emission source (**ID No. ES-6**) is using foam and other contact adhesives, the Permittee shall demonstrate that only compliant adhesives are used in accordance with 40 CFR 63.804(g)(5).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in foam and other contact adhesives in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - When foam and other contact adhesives are used, the Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - When foam and other adhesives are used, the Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(5) and 63.807(b). When foam and other contact adhesives are used, the Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(5) and 63.807(c). When foam and other contact adhesives are used, the Permittee shall follow the requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

**FORMALDEHYDE REQUIREMENTS**

- 9. The Permittee shall comply with one of the following two options by November 21, 2014 and thereafter.
  - a. **Option #1 (400 lb formaldehyde limit per rolling 12 month period)** –
    - i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), limit total formaldehyde ( $F_{total}$ ) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period.
    - ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using Equation 5 and maintain a value of  $F_{total}$  no more than 400 pounds per rolling 12 month period.
    - iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep records of the formaldehyde content, in lb/gal, as applied, of each finishing material and contact adhesive subject to the emission limits of 40 CFR 63.802(a) and (b).
    - iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 63.807(c).



b. **Option#2 (CPDS < 1.0% by weight formaldehyde) –**

- i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations. *Low-formaldehyde* means, in the context of a coating or contact adhesive, a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.
- ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), demonstrate compliance by use of coatings and contact adhesives only if they are *low-formaldehyde* coatings and contact adhesives maintaining a certified product data sheet for each coating and contact adhesive used and submitting a compliance certification with the semi-annual report.
- iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep a certified product data sheet for each coating and contact adhesive used.
- iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 40 CFR 63.807(c) and 40 CFR 63.804(h). The compliance certification shall state that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used. The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

**State-Enforceable only**

**B. All emission sources**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Odors	<b>State-enforceable only</b> Odorous emissions must be controlled	15A NCAC 02D .1806

**1. 15A NCAC 02D .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.

## SECTION 3 - GENERAL CONDITIONS (version 4.0 12/17/15)

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

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

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

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

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

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

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

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements  
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application;
  - b. changes that modify equipment or processes; or
  - c. changes in the quantity or quality of materials processed.

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

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]  
The Permittee may make changes in the operation or emissions without revising the permit if:
  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]  
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A. **Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]  
“**Excess Emissions**” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)

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

**Excess Emissions**

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
  - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
    - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
      - name and location of the facility;
      - nature and cause of the malfunction or breakdown;
      - time when the malfunction or breakdown is first observed;
      - expected duration; and
      - estimated rate of emissions;
    - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
    - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

**Permit Deviations**

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.

3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
  - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;
  - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
  - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

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

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional

requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

**Q. Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**R. Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

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

**S. Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

**T. Insignificant Activities** [15A NCAC 02Q .0503]

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

**U. Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

**V. Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

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

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

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

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

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

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

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

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(4)]

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

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .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 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)** – FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]

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

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]

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

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]

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

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
  - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
    - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
    - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
    - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
  - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.



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

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

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

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

**MM. Fugitive Dust Control Requirement** [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

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

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

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

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

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

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

## ATTACHMENT

### List of Acronyms

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAIR</b>	Clean Air Interstate Rule
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>DAQ</b>	Division of Air Quality
<b>DEQ</b>	Department of Environmental Quality
<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>NAA</b>	Non-Attainment Area
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAP</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>RACT</b>	Reasonably Available Control Technology
<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