



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

Beverly Eaves Perdue  
Governor

B. Keith Overcash, P.E.  
Director

Dee Freeman  
Secretary

XX XX, 2010

Mr. Michael Golden  
Plant Manager  
Georgia Pacific Wood Products, LLC  
1000 North Park Drive  
Roxboro, North Carolina 27573

**SUBJECT: Air Quality Permit No. 07668T21**  
**Facility ID: 7300052**  
**Georgia Pacific Wood Products, LLC - Roxboro Plant**  
**Roxboro, North Carolina**  
**Person County**  
**Fee Class: Title V**

Dear Mr. Golden:

In accordance with your completed Air Quality Permit Application No. 7300052.09B for significant modification of a Title V permit received January 14, 2010, we are forwarding herewith Air Quality Permit No. 07668T21 to Georgia-Pacific Wood Products, LLC – Roxboro Plant, 1000 North Park Drive, Roxboro, North Carolina, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

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

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

**Permitting Section**  
1641 Mail Service Center, Raleigh, North Carolina 27699-1641  
2728 Capital Blvd., Raleigh, NC 27604  
Phone: 919-715-6237 \ FAX: 919-733-5317 \ Internet: [www.daq.state.nc.us](http://www.daq.state.nc.us)

An Equal Opportunity \ Affirmative Action Employer

One  
North Carolina  
*Naturally*

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request shall be submitted in writing to the Director and shall identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit No. 07668T20 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 shall be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.**

This Air Quality Permit shall be effective from XX XX, 2010 until December 31, 2014, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

**Please note the attached summary table, which outlines the changes made to this permit.** Should you have any questions concerning this matter, please contact Mr. Jeff Twisdale at (919) 715-6260.

Sincerely yours,

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

Enclosure

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

**ATTACHMENT 1 to cover letter for Permit No. 07668T21  
Georgia-Pacific Wood Products, LLC - Roxboro**

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

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
IF-FP	Fuel pile for boiler and hot oil heater (ID No. ES-1)	N/A	N/A
IF-4	One steam-heated hot water log spray chest	N/A	N/A
IF-5	One lilly-pad chipper	N/A	N/A
IF-6	One hammermill	N/A	N/A
IF-7	One flowmatic fuel-feed bin	N/A	N/A
IF-8	One log-end cut-off operation	N/A	N/A
<b>IES-9</b>	One natural gas fired hot oil heater (5 million Btu per hour maximum heat input rate) providing hot oil to LVL Line 2 press (ID No. ES-12A)	<b>N/A</b>	<b>N/A</b>
<b>IES-10</b>	One natural gas fired boiler (6.3 million Btu per hour maximum heat input rate) providing steam to LVL Line 1 press (ID No. ES-5D)	<b>N/A</b>	<b>N/A</b>
<b>IES-11</b>	One natural gas fired hot oil heater (5 million Btu per hour maximum heat input rate) providing hot oil to LVL Line 3 press (ID No. ES-13A)	<b>N/A</b>	<b>N/A</b>

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit".

**ATTACHMENT 2 to cover letter for Permit No. 07668T21  
Georgia-Pacific Wood Products, LLC - Roxboro**

The following table describes the changes to the current permit as part of the modification process.

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
Global	Global	N/A	<ul style="list-style-type: none"> <li>• Change the issuance/effective dates of the permit;</li> <li>• Change the application number and complete date;</li> <li>• Change permit revision number to T21;</li> </ul>
N/A	N/A	Insignificant Activities	<ul style="list-style-type: none"> <li>• Remove insignificant activities IES-9, IES-10, and IES-11 from the list and add as sources (<i>see below</i>)</li> </ul>
3 - 4	3 - 4	Equipment List	<ul style="list-style-type: none"> <li>• Add sources ES-9, ES-10, and ES-11 due to Section 112(j) applicability (<i>all are existing sources and were insignificant</i>);</li> <li>• Add 112(j) designations to the emission source ID No. column for those sources subject to 2D .1109</li> </ul>
5	5	2.1 A	Modify the limits/standards summary table to also include 2D .1109 and the specific limits for HAPs
N/A	7 - 12	2.1 A.4	Add 2D .1109 specific conditions including limits, testing, monitoring, recordkeeping and reporting for ES-1
N/A	22 - 23	2.1 A.H.	Add 2D .0503, .0516, .0521 and .1109 specific conditions including limits ( <i>monitoring and recordkeeping for 2D .1109</i> ) for ES-9, ES-10 and ES-11
25 - 33	33 - 41	Section 3	Update General Conditions to version 3.1

Note: Condition/Item numbers are as they appear in Permit No. 07668T21, unless otherwise noted.

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

Division of Air Quality



## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
06419T21	06419T20	XX XX, 2010	December 31, 2014

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

**Permittee:** Georgia-Pacific Wood Products LLC  
**Roxboro Plant**

**Facility ID:** 7300052

**Facility Site Location:** 1000 North Park Drive  
**City, County, State, Zip:** Roxboro, Person County, North Carolina 27573

**Mailing Address:** 1000 North Park Drive  
**City, State, Zip:** Roxboro, North Carolina 27573

**Application Numbers:** 7300052.09B  
**Complete Application Date:** January 14, 2010

**Primary SIC Code:** 2493

**Division of Air Quality,**  
**Regional Office Address:** Raleigh Regional Office  
3800 Barrett Drive  
Raleigh, North Carolina 27609

Permit issued this the XX day of XX, 2010

---

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

## Table of Contents

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

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

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENTS

ATTACHMENT 1.....List of Acronyms

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

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

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
ES-1 <b>112(j)</b>	Wood residual/bark-fired boiler and hot oil heater (70 million Btu per hour maximum heat input rate)	CD-1	One multicyclone (54 nine-inch diameter tubes)
<b>MACT DDDD</b> F-2B	Log preparation operations including one ring-type log debarker and one log cut-off saw	N/A	N/A
<b>MACT DDDD</b> ES-4D	Green veneer chipper (50,000 pounds per hour maximum capacity) receiving veneer waste from the green veneer lathe and clipper	CD-4D	One simple cyclone (96 inches in diameter)
<b>MACT DDDD</b> F-3	Steam-heated veneer conditioning chamber	N/A	N/A
<b>MACT DDDD</b> ES-4F	Steam-heated roller jet green hardwood veneer dryer (12,500 square feet per hour drying capacity on a 3/8 inch basis)	N/A	N/A
<b>MACT DDDD</b> ES-6	Veneer composer chipper	CD-6	One transfer cyclone (72 inches in diameter)
<b>MACT DDDD</b> F-5B	Curtain coater for LVL Line 1	N/A	N/A
<b>MACT DDDD</b> ES-5D	Steam-heated press for LVL Line 1	N/A	N/A
<b>MACT DDDD</b> F-SCSBa	Surface coating spray booth for LVL Line 1	N/A	N/A
<b>MACT DDDD</b> F-13B	Curtain coater for LVL Line 3	N/A	N/A
<b>MACT DDDD</b> ES-13A	Oil-heated press for LVL Line 3	N/A	N/A
<b>MACT DDDD</b> F-SCSBc	Surface coating spray booth for LVL Line 3	N/A	N/A
<b>MACT DDDD</b> ES-13	Trim system for LVL Lines 1 and 3	CD-13D and CD-13D1	One simple cyclone (132 inches in diameter) in series with one bagfilter (3,296 square feet of filter area)
<b>MACT DDDD</b> F-13E	Truck loadout bin for LVL Lines 1 and 3	N/A	N/A
<b>MACT DDDD</b> F-12B	Curtain coater for LVL Line 2	N/A	N/A
<b>MACT DDDD</b> ES-12A	Oil-heated press for LVL Line 2	N/A	N/A
<b>MACT DDDD</b> F-SCSBb	Surface coating spray booth for LVL Line 2	N/A	N/A
<b>MACT DDDD</b> ES-12	Trim system for LVL Line 2	CD-12E and CD-12E1	One simple cyclone (136 inches in diameter) in series with one bagfilter (3,296 square feet of filter area)
<b>MACT DDDD</b> F-12F	Truck loadout bin for LVL Line 2	N/A	N/A
<b>MACT DDDD</b> F-15b	Trademark applicator for LVL	N/A	N/A

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
<b>MACT DDDD</b> F-ECSB	Edge coating spray booth for LVL	N/A	N/A
<b>MACT DDDD</b> ES-8	Header operations and I-Beam assembly	CD-8	One bagfilter (5,767 square feet of filter area)
<b>MACT DDDD</b> F-14a	I-Beam assembly glue applicator	N/A	N/A
<b>MACT DDDD</b> F-14b	I-Beam assembly glue applicator	N/A	N/A
<b>MACT DDDD</b> F-9	Natural gas direct-fired I-Beam curing tunnel (two burners with 4.25 million Btu per hour maximum heat input rate, each)	N/A	N/A
<b>MACT DDDD</b> F-15a	Trademark applicator for I-Beams	N/A	N/A
<b>MACT DDDD</b> ES-10	Dry wood dust storage silo for header operations and I-Beam assembly	CD-10	One bagfilter (382 square feet of filter area)
<b>MACT DDDD</b> ES-10B	Truck loadout bin for header operations and I-Beam assembly	CD-10B	One bagfilter (854 square feet of filter area)
<b>MACT DDDD</b> ST1	One resin storage tank (10,400 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST2	One resin storage tank (10,400 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST3	One resin storage tank (10,400 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST4	One wax storage tank (8,000 gallons capacity)	N/A	N/A
<b>MACT DDDD</b> ST5	One resin storage tank (6,186 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST6	One resin storage tank (6,186 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST7	One resin storage tank (6,186 gallon capacity)	N/A	N/A
<b>MACT DDDD</b> ST8	One resin storage tank (6,186 gallon capacity)	N/A	N/A
<b>ES-9</b> <b>112(j)</b>	One natural gas-fired hot oil heater (5 million Btu per hour maximum heat input rate) providing hot oil to LVL Line 2 press (ID No. ES-12A)	N/A	N/A
<b>ES-10</b> <b>112(j)</b>	One natural gas-fired boiler (6.3 million Btu per hour maximum heat input rate) providing steam to LVL Line 1 press (ID No. ES-5D)	N/A	N/A
<b>ES-11</b> <b>112(j)</b>	One natural gas-fired hot oil heater (5 million Btu per hour maximum heat input rate) providing hot oil to LVL Line 3 press (ID No. ES-13A)	N/A	N/A
<b>MACT ZZZZ</b> ES-P12	One diesel-fired emergency use fire pump (185 horsepower maximum rated power output)	N/A	N/A

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

#### A. Wood residual/bark-fired boiler and hot oil heater (70 million Btu per hour maximum heat input rate, ID No. ES-1) and associated multicyclone (54 nine-inch diameter tubes; ID No. CD-1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.45 pounds per million Btu heat input	15A NCAC 2D .0504
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Toxic Air Pollutants	<b>State-Enforceable Only</b> <b>See Section 2.2 B</b>	15A NCAC 2D .1100; 15A NCAC 2Q .0705; and 15A NCAC 2Q .0711
Odorous emissions	<b>State-Enforceable Only</b> <b>See Section 2.2 A</b>	15A NCAC 2D .1806
<b>Hazardous Air Pollutants</b>	Total Selected Metals (TSM): 3.0 E-04 lb/MMBtu for green wood Total Selected Metals (TSM): 5.0 E-04 lb/MMBtu for dry wood Mercury (Hg): 5.0 E-06 lb/MMBtu Hydrogen Chloride (HCl): 0.02 lb/hr Carbon Monoxide (CO): 508 ppmvd, corrected to 7% O <sub>2</sub>	15A NCAC 2D .1109 [CAA § 112(j)]

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

- a. Emissions of particulate matter from the combustion of wood that are discharged from the boiler and hot oil heater (**ID No. ES-1**) into the atmosphere shall not exceed 0.45 pounds per million Btu heat input. Collected flyash shall not be reinjected into the boiler and hot oil heater. [15A NCAC 2D .0504]

**Testing** [15A NCAC 2D .2601]

- b. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits listed in Section 2.1 A.1.a, above, once per permit term by testing the boiler and hot oil heater in accordance with a testing protocol approved by NC DAQ, General Condition JJ found in Section 3, and 15A NCAC 2D .2601. The testing shall be completed, and the associated test report submitted to DAQ, at least 9 months prior to expiration of this permit unless an alternative date is approved by the DAQ. At least forty-five (45) days prior to performing this testing, the Permittee shall develop and submit a testing protocol to the Washington Regional Supervisor, Division of Air Quality for review and approval.

If the results of this test are above the limits identified in Section 2.1 A.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

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

- c. Particulate matter emissions from the wood fuel-fired boiler and hot oil heater shall be controlled by the multicyclone. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. A monthly 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 2D .0504 if the multicyclone and ductwork is not inspected and maintained.

**Recordkeeping** [15A NCAC 2Q .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 multicyclone; and
  - iv. Any variance from manufacturer's recommendations, if any, and corrections made.

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

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

- e. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone (ID No. CD-1).
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 shall be clearly identified.

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

- a. Emissions of sulfur dioxide from the boiler and hot oil heater (ID No. ES-1) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

**Testing** [15A NCAC 2D .2601]

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

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

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from firing of wood fuel in the boiler and hot oil heater (ID No. ES-1).

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

- a. Visible emissions from the boiler and hot oil heater (ID No. ES-1) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A.3.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once per week the Permittee shall observe the emission points of the boiler and hot oil heater (**ID No. ES-1**) for any visible emissions above normal. The weekly observation shall be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3.a above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

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

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the observations postmarked or delivered 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 shall be clearly identified.

**4. 15A NCAC 2D .1109: CAA § 112(j); Case-by-Case MACT for Boilers & Process Heaters**

- a. Emissions of the following regulated pollutants shall not exceed the emissions limits listed below for the affected wood-fired boiler (ID No. ES-1):

Regulated Pollutant(s)	Emission Limit(s)
Total Selected Metals (TSM) <i>TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, and selenium. [Manganese shall not be included in the determination of TSM.]</i>	3.00 E-04 lb/MMBtu for green wood 5.00 E-04 lb/MMBtu for dry wood
Mercury (Hg)	5.00 E-06 lb/MMBtu
Hydrogen Chloride (HCl)	0.02 lb/MMBtu
Carbon Monoxide (CO)	508 ppmvd, corrected to 7% O <sub>2</sub>

The initial compliance date for these emission limitations and associated monitoring, recordkeeping, and reporting requirements is DATE - 3 years after permit issuance. 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 2D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.

**Operating Standards**

- b. To assure compliance with the Total Selected Metals (TSM) limitation, the exhaust from the boiler stack shall not be greater than 20 percent opacity (six-minute average), except for one six-minute period per hour of not more than 27 percent opacity.
- c. To assure compliance with the Mercury (Hg) limitation, the Permittee shall maintain the fuel type or fuel mixture such that the Hg emission rates calculated according to the procedures in Section 2.1 A.4.g. are less than the applicable emission limits.

**Testing** [15A NCAC 2D .2601]

- d. **Initial Testing Requirement** - The Permittee shall conduct an initial compliance test within 180 days of the initial compliance date, unless the NC DAQ – Stationary Source Compliance Branch (SSCB) approves a previously conducted performance test as an equivalent compliance demonstration. Testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. Performance tests may not be conducted during periods of startup, shutdown, or malfunction. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the required tests are not conducted, or if the results of the emissions tests exceed the limits in Section 2.1 A.4.a. above.

- i. If the results of the performance test for carbon monoxide (CO) are 90% or greater than the limit in Section 2.1.B.4.a. above, the Permittee shall either:
    - A. Install and operate a CO CEMS within 180 days of the test; or,
    - B. Retest the boiler within 90 days of receiving the initial stack test results. If the subsequent stack test results are below 90% of the CO limitation, the Permittee shall demonstrate continuous compliance with the CO standard using the periodic testing requirements in Section 2.1 A.4.e. below. If the second stack test results are 90% or greater than the CO limitation, the Permittee shall install and operate a CO CEMS within 180 days of the test.
  - ii. If the results of the performance test for opacity are 90% or greater than the limit in Section 2.1 A.4.b, the Permittee shall either:
    - A. Install and operate a COMS within 180 days of the test; or,
    - B. Retest the boiler within 90 days of receiving the initial stack test results. If the subsequent stack test results are below 90% of the opacity limitation, the Permittee shall demonstrate continuous compliance with the opacity standard using the monitoring requirements in Section 2.1 A.4.k. below. If the second stack test results are 90% or greater than the opacity limitation, the Permittee shall install and operate a COMS within 180 days of the test.
- e. Periodic Testing: TSM and HCl - The Permittee shall conduct all applicable performance tests on an annual basis, unless it meets the requirements listed in i. through iii. below. Annual performance tests, if required, shall be completed between 10 and 12 months after the previous performance test.
- i. The Permittee may conduct performance tests less often for a given pollutant if the performance tests for at least 3 consecutive years show compliance with the emission limit. In this case, the Permittee need not conduct a performance test for that pollutant for the next 2 years, but shall conduct a performance test during the third year and no more than 36 months after the previous performance test.
  - ii. If the affected boiler or process heater continues to meet the emission limit, the Permittee may conduct performance tests every third year, but each such performance test shall be conducted no more than 36 months after the previous performance test.
  - iii. If a performance test shows noncompliance with an emission limit, the Permittee shall conduct annual performance tests for that pollutant until all performance tests over a consecutive 3-year period show compliance.
- The Permittee shall report the results of performance test within 60 days after the completion of the performance tests or fuel analyses. This report should also verify that the operating limits for the affected sources have not changed or provide documentation of revised operating parameters.
- f. Periodic Testing: CO. Unless the Permittee is demonstrating compliance with the CO standard using a CO CEMS, the Permittee shall conduct annual performance tests to demonstrate compliance with the CO limitation on an annual basis, unless the Permittee meets the requirement listed in ii. through iv. below. Annual performance tests, if required, shall be completed between 10 and 12 months after the previous performance test.
- i. If the results of the performance test for carbon monoxide are 90% or greater than the limit in Section 2.1.B.4.a. above, the Permittee shall either:
    - A. Install and operate a CO CEMS within 180 days of the test; or,
    - B. Retest the boiler within 90 days of receiving the initial stack test results. If the subsequent stack test results are 90% or greater than the CO limitation, the Permittee shall install and operate a CO CEMS within 180 days of the test.
  - ii. The Permittee may conduct performance tests less often for a given pollutant if the performance tests for at least 3 consecutive years show compliance with the emission limit. In this case, the Permittee need not conduct a performance test for that pollutant for the next 2 years, but shall conduct a performance test during the third year and no more than 36 months after the previous performance test.
  - iii. If the affected boiler or process heater continues to meet the emission limit, the Permittee may conduct performance tests every third year, but each such performance test shall be conducted no more than 36 months after the previous performance test.
  - iv. If a performance test shows noncompliance with an emission limit, the Permittee shall conduct annual performance tests for that pollutant until all performance tests over a consecutive 3-year period show compliance.
- The Permittee shall report the results of performance tests within 60 days of completion. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to complete the required testing or if testing shows an exceedance of a limitation in Section 2.1 B.4.a. above.

- g. **Initial Fuel Analysis Requirement** - The Permittee shall conduct an initial fuel analysis to determine emission rates and establishing required operating limits within 180 days of the initial compliance date. The fuel analyses shall be conducted according to the following procedures:
- i. Develop and submit a site-specific fuel analysis plan to the NC DAQ – SSCB for review and approval no later than 60 days before the date that the Permittee plans to demonstrate compliance. The plan shall include the following information:
    - A. The identification of all fuel types anticipated to be burned in each affected boiler or process heater.
    - B. For each fuel type, identification of whether the fuel analysis will be conducted by the Permittee or a fuel supplier.
    - C. For each fuel type, a detailed description of the sample location and specific procedures to be used for collecting and preparing the composite samples if the procedures are different from paragraph c. or d. below. Samples should be collected at a location that most accurately represents the fuel type, where possible, at a point prior to mixing with other dissimilar fuel types.
    - D. For each fuel type, the analytical methods, with the expected minimum detection levels, to be used for the measurement of or Hg.
  - ii. Obtain, at a minimum, three composite fuel samples for each fuel type according to the following procedures, or according to the procedures in Table 8-1 below:
    - A. If sampling from a belt (or screw) feeder, collect fuel samples as follows:
      1. Stop the belt and withdraw a 6-inch wide sample from the full cross-section of the stopped belt to obtain a minimum two pounds of sample. Collect all the material (fines and coarse) in the full cross-section. Transfer the sample to a clean plastic bag.
      2. Each composite sample will consist of a minimum of three samples collected at approximately equal intervals during the testing period.
    - B. If sampling from a fuel pile or truck, collect fuel samples according as follows:
      1. For each composite sample, select a minimum of five sampling locations uniformly spaced over the surface of the pile.
      2. At each sampling site, dig into the pile to a depth of 18 inches. Insert a clean flat square shovel into the hole and withdraw a sample, making sure that large pieces do not fall off during sampling.
    - C. Transfer all samples to a clean plastic bag for further processing.
  - iii. Prepare each composite sample according to the procedures in paragraphs A. through G. below:
    - A. Thoroughly mix and pour the entire composite sample over a clean plastic sheet.
    - B. Break sample pieces larger than 3 inches into smaller sizes.
    - C. Make a pie shape with the entire composite sample and subdivide it into four equal parts.
    - D. Separate one of the quarter samples as the first subset.
    - E. If this subset is too large for grinding, repeat the procedure in paragraph iii. above with the quarter sample and obtain a one-quarter subset from this sample.
    - F. Grind the sample in a mill.
    - G. Use the procedure in paragraph C. above to obtain a one-quarter subsample for analysis. If the quarter sample is too large, subdivide it further using the same procedure.
  - iv. Determine the concentration of pollutants in the fuel (Hg) in units of lbs/MMBtu of each composite sample for each fuel type according to the procedures in the following table.

**Table 8 -1 Fuel Analysis Requirement**

Pollutant(s)	Task	Method
Hg, TSM, and/or HCl	Collect Fuel Samples	<ul style="list-style-type: none"> <li>• Procedure in paragraph c. above; or,</li> <li>• ASTM D2234-00, D2234M-03 (for coal) (IBR, see 40 CFR 63.14(b)); or,</li> <li>• ASTM D6323-98 (2003) (for biomass) (IBR, see 40 CFR 63.14(b)).</li> </ul>
	Prepare Compositd Fuel Samples	<ul style="list-style-type: none"> <li>• SW-846-3050B (for solid samples); or,</li> <li>• SW-846-3020A (for liquid samples); or,</li> <li>• ASTM D2013-04 (for coal) (IBR, see 40 CFR 63.14(b)); or,</li> <li>• ASTM D5198-92 (2003) (for biomass) (IBR, see 40 CFR 63.14(b)).</li> </ul>
	Determine Heat Content	<ul style="list-style-type: none"> <li>• ASTM D5865-04 (for coal) (IBR, see 40 CFR 63.14(b)); or,</li> <li>• ASTM E711-87 (for biomass) (IBR, see 40 CFR 63.14(b)).</li> </ul>
	Determine Moisture Content	<ul style="list-style-type: none"> <li>• ASTM D3137-03 (IBR, see 40 CFR 63.14(b)); or,</li> <li>• ASTM E871-82 (1998) (IBR, see 40 CFR 63.14(b)).</li> </ul>
Hg	Measure Hg Concentration in Sample	<ul style="list-style-type: none"> <li>• ASTM D6722-01 (for coal) (IBR, see 40 CFR 63.14(b)); or,</li> <li>• SW-846-7471A (for solid samples); or,</li> <li>• SW-846-7470A (for liquid samples).</li> </ul>

Pollutant(s)	Task	Method
	Convert Concentration into lbs/MMBtu	Method 19 F-factor methodology in 40 CFR 60, Appendix A
TSM	Measure TSM Concentration in Sample	<ul style="list-style-type: none"> <li>• SW-846-6010B or ASTM D6357-04 (for arsenic, beryllium, cadmium, chromium, lead, manganese, and nickel for all solid fuels); and,</li> <li>• ASTM D4606-03 (for selenium in coal) (IBR, see 40 CFR 63.14(b)); or,</li> <li>• ASTM E885-88 (1996) (for biomass) (IBR, see 40 CFR 63.14(b)).</li> </ul>
	Convert Concentration into lbs/MMBtu	Method 19 F-factor methodology in 40 CFR 60, Appendix A
HCl	Measure HCl Concentration in Sample	<ul style="list-style-type: none"> <li>• SW-846-9250 or ASTM D6721-01 (for coal); or,</li> <li>• ASTM E776-87 (1996) (for biomass) (IBR, see 40 CFR 63.14(b)).</li> </ul>
	Convert Concentration into lbs/MMBtu	Method 19 F-factor methodology in 40 CFR 60, Appendix A

The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the required initial fuel analysis is not performed, or if the emission rate determined exceeds the limit in Section 2.1 A.4.a.

- h. **Periodic Fuel Analysis Requirements: Hg** - The Permittee shall conduct a fuel analysis for each type of fuel burned no later than 5 years after the previous fuel analysis. The Permittee shall report the results of fuel analyses within 60 days after the completion of the fuel analyses. This report should also verify that the operating limits for your affected source have not changed or provide documentation of revised operating parameters. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the required periodic fuel analyses are not performed, or if the emission rate determined exceeds the limit in Section 2.1 A.4.a.
- i. **Initial Compliance Requirements: Hg** - If the Permittee demonstrates compliance through performance testing, the Permittee shall establish each site-specific operating limit that applies according to the requirements in Section 2.1 A.4.d, as applicable. The Permittee shall also conduct fuel analyses according to Section 2.1 A.4.g. and establish maximum fuel pollutant input levels according to paragraph A. of this section, as applicable.
- A. Establish the maximum Hg fuel input level ( $\text{Mercury}_{\text{input}}$ ) during the initial performance testing using the procedures provided below.
1. Determine the fuel type or fuel mixture that can be burned in the boiler or process heater with the highest content of Hg.
  2. During the compliance demonstration for Hg, determine the fraction of total heat input for each fuel burned ( $Q_i$ ) based on the fuel mixture that has the highest content of mercury, and the average mercury concentration of each fuel type burned ( $\text{HG}_i$ ).
  3. Establish a maximum mercury input level using Eq. 7.

$$\text{Mercury}_{\text{input}} = \sum_{i=1}^n [(\text{HG}_i)(Q_i)] \quad (\text{Eq. 7})$$

Where:

- $\text{Mercury}_{\text{input}}$  = Maximum amount of mercury entering the boiler or process heater through fuels burned in lbs/MMBtu.
- $\text{HG}_i$  = Arithmetic average concentration of mercury in fuel type, i, determined by fuel analysis, in lbs/MMBtu.
- $Q_i$  = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest mercury content. If multiple fuel types are not fired during the performance testing, insert a value of "1" for  $Q_i$ .
- $n$  = Number of different fuel types burned in the boiler or process heater for the mixture that has the highest content of Hg.

- j. **Ongoing Compliance Requirements: Hg** - The HG emission rate calculated for the affected boiler or process heater using Eq. 11 shall be less than the applicable emission limit.

$$\text{Mercury} = \sum_{i=1}^n [(\text{HG}_{190})(Q_i)] \quad (\text{Eq. 11})$$

**Where:**

- Mercury = Mercury emission rate from the boiler or process heater in lbs/MMBtu.  
 $HG_{i90}$  = 90th percentile confidence level concentration of mercury in fuel, i, in lbs/MMBtu as calculated according to Eq. 8.  
 $Q_i$  = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest mercury content. If the affected source does not burn multiple fuel types, insert a value of "1" for  $Q_i$ .  
n = Number of different fuel types burned in the affected source for the mixture that has the highest mercury content.

The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the Hg emission rate determined above exceeds the limit in Section 2.1 A.4.a.

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

- k. The Permittee shall maintain opacity of exhaust from the multicyclone (**ID No. CD-1**) 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.3.c and d are sufficient to demonstrate compliance with this opacity requirement. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .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.
- l. The monitoring and recording in Section 2.1 A.1.c and d are sufficient to demonstrate compliance with the TSM limitation provided in Section 2.1 A.4.a above. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to meet these monitoring and recordkeeping requirements.
- m. The Permittee shall maintain records of the type and amount of all fuels burned in each affected source during the reporting period to demonstrate that:
- All fuel types and mixtures of fuels burned would result in Hg emissions that are lower than the applicable emission limit for each pollutant (if the facility demonstrates compliance using fuel analysis); or
  - All fuel types and mixtures of fuels burned would result in lower fuel input of TSM and  $Cl_2$  than the maximum values calculated during the last performance tests (if the facility demonstrates compliance through performance testing).

The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the fuel types burned result in emission rates exceed the applicable emission limits in Section 2.1 A.4.a.

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

- n. The Permittee shall maintain copy of each notification and report required by this standard, including all documentation supporting any Notification of Compliance Status.
- o. The Permittee shall maintain records of performance tests or other compliance demonstrations, and opacity observations.
- p. The Permittee shall maintain the following records:
- Records of monthly fuel use by each affected source, including the type(s) of fuel and amount(s) used.
  - A copy of all calculations and supporting documentation of maximum  $Cl_2$  and TSM fuel input that were conducted to demonstrate compliance with and associated limit through performance testing. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum  $Cl_2$  and TSM fuel input.
  - A copy of all calculations and supporting documentation of Hg emission rates that were conducted to demonstrate compliance with and associated limit through fuel analysis. Supporting documentation should include results of any fuel analyses and basis for the estimates of emission rates.

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

- q. **Notification of Compliance Status** - The Permittee shall 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 shall 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.

- ii. Summary of the results of all performance tests, fuel analyses, and calculations conducted to demonstrate initial compliance including all established operating limits.
  - iii. Identification of whether the facility is complying with the PM emission limit or the alternative TSM emission limit.
  - iv. Identification of whether the facility demonstrated compliance with each applicable emission limit through performance testing or fuel analysis.
  - v. Identification of whether the facility plans to demonstrate compliance by emissions averaging.
  - vi. A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
  - vii. A summary of the CO emissions monitoring data, as applicable, and the maximum CO emission levels recorded during the performance test to show that the facility has met any applicable work practice standard.
- r. 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 first summary report shall be required on **July 30, 2013**. The report shall include the following:
- i. Company name, address and facility ID number;
  - 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. The total fuel use by each affected source for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure;
  - v. A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable;
  - vi. A signed statement indicating that no new types of fuel were fired in the affected sources;

**B. Log and veneer preparation and wood residual handling operations, including:**

- Log preparation operations including one ring-type debarker and one log cut-off saw (ID No. F-2B);**
- Green veneer chipper (ID No. ES-4D) and one associated simple cyclone (96 inches in diameter; ID No. CD-4D);**
- Veneer composer chipper (ID No. ES-6) and associated transfer cyclone (72 inches in diameter; ID No. CD-6);**
- Trim system for laminated veneer lumber (LVL) Lines 1 and 3 (ID No. ES-13) and associated simple cyclone (132 inches in diameter; ID No. CD-13D) in series with one bagfilter (3,296 square feet of filter area; ID No. CD-13D1);**
- Truck loadout bin for LVL Lines 1 and 3 (ID No. F-13E); and**
- Trim system for LVL Line 2 (ID No. ES-12) and associated simple cyclone (136 inches in diameter; ID No. CD-12E) in series with one bagfilter (3,296 square feet of filter area; ID No. CD-12E1);**
- Truck loadout bin for LVL Line 2 (ID No. F-12F);**
- Dry wood dust silo for header operations and I-Beam assembly (ID No. ES-10) and associated bagfilter (382 square feet of filter area; ID No. CD-10); and**
- Truck loadout bin for header operations and I-Beam assembly (ID No. ES-10B) and associated bagfilter (854 square feet of filter area; ID No. CD-10B)**

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	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>See Section 2.2 C</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart DDDD]

**1. 15A NCAC 2D .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. [15A NCAC 2D .0512]

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the log preparation operations (ID No. F-2B) or the truck loadout bins for the LVL lines (ID Nos. F-12F and F-13E).  
**Monitoring** [15A NCAC 2Q .0508(f)]
- c. Particulate matter emissions from the green veneer chipper (**ID No. ES-4D**), the veneer composer chipper (**ID No. ES-6**), the dry wood dust silo (**ID No. ES-10**), the LVL trim systems (**ID Nos. ES-12 and ES-13**), and the truck loadout bin for header operations and I-Beam assembly (**ID No. ES-10B**) shall be controlled as described above by four simple cyclones (**ID Nos. CD-4D, CD-6, CD-13D, and CD-12E**) and four bagfilters (**ID Nos. CD-10, CD-10B, CD-12E1, and CD-13D1**). To assure 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 inspections of the ductwork, cyclone, 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 2D .0512 if the ductwork, cyclone, and bagfilters are not inspected and maintained.

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

- d. The results of the inspections and maintenance for the cyclone and bagfilters 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; and
  - iii. The results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 shall be clearly identified.

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

- a. Visible emissions from these sources (**ID Nos. F-2B, ES-4D, ES-6, ES-10, ES-10B, ES-12, ES-13, F-13E, and F-12F**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 B.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a week the Permittee shall observe the emission points of these emission sources for any visible emissions above normal. The weekly observation shall be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

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

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the observations postmarked or delivered 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 shall be clearly identified.

**C. Veneer preparation operations, including:****Steam-heated veneer conditioning chamber (ID No. F-3); and****Steam-heated roller jet green hardwood veneer dryer (12,500 square feet per hour drying capacity on a 3/8 inch basis; ID No. ES-4F)**

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 ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile Organic Compounds	Work practice standards <b>See Section 2.2 A</b>	15A NCAC 2D .0958
Toxic Air Pollutants	<b>State-Enforceable Only</b> <b>See Section 2.2 B</b>	15A NCAC 2D .1100; 15A NCAC 2Q .0705; and 15A NCAC 2Q .0711
Odorous emissions	<b>State-Enforceable Only</b> <b>See Section 2.2 A</b>	15A NCAC 2D .1806
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>See Section 2.2 C</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart DDDD]

**1. 15A NCAC 2D .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. [15A NCAC 2D .0512]

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the veneer conditioning chamber (**ID No. F-3**) or the veneer dryer (**ID No. ES-4F**).

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

- a. Visible emissions from the sources associated with the veneer operations (**ID Nos. F-3 and ES-4F**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the veneer conditioning chamber (**ID No. F-3**).
- d. To assure compliance, once a week the Permittee shall observe the emission points of the veneer dryer (**ID No. ES-4F**) for any visible emissions above normal. The weekly observation shall be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
- Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (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 2D .0521.

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

- e. 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 2D .0521 if these records are not maintained.

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

- f. The Permittee shall submit a summary report of the observations postmarked or delivered 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 shall be clearly identified.

**D. Laminated veneer lumber (LVL) production operations, including:**

- Curtain coater for LVL Line 1 (ID No. F-5B);**
- Steam-heated press for LVL Line 1 (ID No. ES-5D);**
- Surface coating spray booth for LVL Line 1 (ID No. F-SCSBa);**
- Curtain coater for LVL Line 2 (ID No. F-12B);**
- Oil-heated press for LVL Line 2 (ID No. ES-12A);**
- Surface coating spray booth for LVL Line 2 (ID No. F-SCSBb);**
- Curtain coater for LVL Line 3 (ID No. F-13B);**
- Oil-heated press for LVL Line 3 (ID No. ES-13A); and**
- Surface coating spray booth for LVL Line 3 (ID No. F-SCSBc);**

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 ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile Organic Compounds	Work practice standards <b>See Section 2.2 A</b>	15A NCAC 2D .0958
Toxic Air Pollutants	<b>State-Enforceable Only</b> <b>See Section 2.2 B</b>	15A NCAC 2D .1100; 15A NCAC 2Q .0705; and 15A NCAC 2Q .0711
Odorous emissions	<b>State-Enforceable Only</b> <b>See Section 2.2 A</b>	15A NCAC 2D .1806
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>See Section 2.2 C</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart DDDD]

**1. 15A NCAC 2D .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. [15A NCAC 2D .0512]

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the LVL production operations (**ID Nos. F-5B, ES-5D, F-SCSBa, F-12B, ES-12A, F-SCSBb, F-13B, ES-13A, and F-SCSBc**).

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

- a. Visible emissions from the LVL production operations (**ID Nos. F-5B, ES-5D, F-SCSBa, F-12B, ES-12A, F-SCSBb, F-13B, ES-13A, and F-SCSBc**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 D.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the fugitive LVL production operations (**ID Nos. F-5B, F-SCSBa, F-12B, F-SCSBb, F-13B, and F-SCSBc**).

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

- d. To assure compliance, once a week the Permittee shall observe the emission points of the three LVL presses (**ID Nos. ES-5D, ES-12A, and ES-13A**) for any visible emissions above normal. The weekly observation shall be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (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 2D .0521.

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

- e. 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 2D .0521 if these records are not maintained.

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

- f. The Permittee shall submit a summary report of the observations postmarked or delivered 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 shall be clearly identified.

**E. Header operations and I-Beam assembly (ID No. ES-8) and associated bagfilter (5,767 square feet of filter area; ID No. CD-8);**

**Two I-Beam assembly glue applicators; and (ID Nos. F-14a and F-14b); and**

**Natural gas direct-fired I-Beam curing tunnel (two burners with 4.25 million Btu per hour maximum heat input rate, each; ID No. F-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	<b>Applies to ES-8, F-14a, and F-14b:</b> Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
	<b>Applies to F-9:</b> $E = 55.0P^{0.11} - 40$ Where: E = allowable emission rate (lb/hr) P = process weight (ton/hr)	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile Organic Compounds	<b>Applies to F-9, F-14a, and F-14b:</b> Work practice standards - <b>See Section 2.2 A</b>	15A NCAC 2D .0958
Toxic Air Pollutants	<b>State-Enforceable Only</b> <b>Applies to F-9, F-14a, and F-14b</b> <b>See Section 2.2 B</b>	15A NCAC 2D .1100; 15A NCAC 2Q .0705; and 15A NCAC 2Q .0711
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>See Section 2.2 C</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart DDDD]
Odorous emissions	<b>Applies to F-9, F-14a, and F-14b:</b> <b>State-Enforceable Only - See Section 2.2 A</b>	15A NCAC 2D .1806

#### 1. 15A NCAC 2D .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. [15A NCAC 2D .0512]

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the two glue applicators (**ID Nos. F-14a and F-14b**).

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

- c. Particulate matter emissions from the header operations and I-Beam assembly (**ID No. ES-8**) shall be controlled by a bagfilter (**ID No. CD-8**). To assure 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:
- Monthly external inspections of the ductwork and bagfilter noting the structural integrity; and
  - Annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork and bagfilter are not inspected and maintained.

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

- d. The results of the inspections and maintenance for the bagfilters 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 inspection; and
  - The results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

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

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 shall be clearly identified.

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

- a. Emissions of particulate matter from the I-Beam curing tunnel (**ID No. F-9**) shall not exceed an allowable emission rate as calculated by the following equations: [15A NCAC 2D .0515(a)]

$$E = 55.0 \times P^{0.11} - 40$$

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

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

### Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. The Permittee shall maintain production records which specify the types of materials and adhesives processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- a. Visible emissions from these sources (**ID Nos. ES-8, F-9, F-14a, and F-14b**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

### Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.3.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the two glue applicators (**ID Nos. F-14a and F-14b**) or the I-Beam curing tunnel (**ID No. F-9**).

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

- d. To assure compliance, once a week the Permittee shall observe the emission points of the header operations and I-Beam assembly (**ID No. ES-8**) for any visible emissions above normal. The weekly observation shall be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
- i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 E.3.a above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- e. 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 2D .0521 if these records are not maintained.

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

- f. The Permittee shall submit a summary report of the observations postmarked or delivered 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 shall be clearly identified.

**F. Group 1 Miscellaneous Coating Operations, including:**

**Trademark applicator for I-Beams (ID No. F-15a);**

**Trademark applicator for LVL (ID No. F-15b); and**

**Edge coating spray booth for LVL (ID No. F-ECSB)**

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 ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile Organic Compounds	Work practice standards <b>See Section 2.2 A</b>	15A NCAC 2D .0958
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>See Section 2.2 C</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart DDDD]
Odororous emissions	<b>State-Enforceable Only</b> <b>See Section 2.2 A</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .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. [15A NCAC 2D .0512]

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the group 1 miscellaneous coating operations (ID Nos. F-ECSB, F-15a and F-15b).

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

- a. Visible emissions from the sources associated with the I-Beam assembly and header operation shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 F.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the group 1 miscellaneous coating operations (ID Nos. F-ECSB, F-15a and F-15b).

**G. One diesel-fired emergency use fire pump (185 horsepower maximum rated power output; ID No. ES-P12)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous Air Pollutants	Maximum Achievable Control Technology <b>No applicable requirements</b>	15A NCAC 2D .1111 [40 CFR Part 63, Subpart ZZZZ]
Odororous emissions	<b>State-Enforceable Only</b> <b>See Section 2.2 A</b>	15A NCAC 2D .1806

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

- a. Emissions of sulfur dioxide from the emergency use fire pump (**ID No. ES-P12**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

**Testing** [15A NCAC 2D .2601]

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

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

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the emergency use fire pump (**ID No. ES-P12**).

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

- a. Visible emissions from the emergency use fire pump (**ID No. ES-P12**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 G.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the emergency use fire pump (**ID No. ES-P12**).

### 3. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. The emergency use fire pump (**ID No. ES-P12**) is subject to Environmental Management Commission Standard 15A NCAC 2D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines." [15A NCAC 2D .1111]
- b. The emergency use fire pump (**ID No. ES-P12**) is considered an existing stationary reciprocating internal combustion engine (RICE), pursuant to §63.6590(a)(1)(iii), for the purposes of Subpart ZZZZ. Therefore, this emergency RICE is not required to meet the requirements of 40 CFR Part 63, Subparts ZZZZ or A "General Provisions" (i.e. an initial notification is not required for this emergency RICE). [§63.6590(b)(3)]

**H. Two (2) Natural Gas-Fired Hot Oil Heaters (5.0 million Btu per hour each, ID Nos. ES-9 and ES-11) and one (1) Natural Gas-Fired Boiler (6.3 million Btu per hour, ID No. ES-10)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.34 pounds per million Btu	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Opacity	Shall not be more than 20% opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20% opacity 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% opacity.	15A NCAC 2D .0521
HAPs	Best Combustion Practices	15A NCAC 2D .1109 [CAA § 112(j)]

**1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the combustion of natural gas that are discharged from the affected boilers and process heaters (**ID Nos. ES-9, ES-10 and ES-11**) into the atmosphere shall not exceed 0.34 pounds per million Btu heat input.

**Testing** [15A NCAC 2D .2601]

- 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 limits given in Section 2.1 H.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in these sources.

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

- a. Emissions of sulfur dioxide from the affected boilers (**ID Nos. ES-9, ES-10 and ES-11**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

**Testing** [15A NCAC 2D .2601]

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

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

- c. No monitoring/recordkeeping/reporting is required for natural gas from the firing of natural gas in these sources.

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

- a. Visible emissions from the affected boilers (**ID Nos. ES-9, ES-10, and ES-11**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these sources.

**4. 15A NCAC 2D .1109: CAA § 112(j); Case-by-Case MACT for Boilers & Process Heaters**

- a. The Permittee shall use best combustion practices when operating the affected boilers and process heaters (**ID Nos. ES-9, ES-10, and ES-11**). The initial compliance date for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements is **<ENTER DATE THREE YEARS AFTER PERMIT ISSUANCE>**. These conditions need not be included on the annual compliance certification until after the initial compliance date.

**Monitoring/Recordkeeping**

- b. To assure compliance, the Permittee shall perform an annual boiler and process heater inspection, as applicable, and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
- i. Inspect the burner, and clean or replace any components of the burner as necessary;
  - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,
  - iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the affected boilers are not inspected and maintained as required above.

- c. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. The date of each recorded action;
  - ii. The results of each inspection; and,
  - iii. The results of any maintenance performed on the boilers and the process heaters.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if these records are not maintained.

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

- d. No reporting is required for hazardous air pollutants from the firing of natural gas in these sources.

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

### A. Facility-wide sources emitting odorous emissions and/or utilizing volatile organic compounds as solvents, carriers, material processing media, etc., including:

**Wood residual/bark-fired boiler and hot oil heater (ID No. ES-1);**

**Steam-heated veneer conditioning chamber (ID No. F-3);**

**Steam-heated roller jet veneer dryer (ID No. ES-4F);**

**Three LVL curtain coaters (ID Nos. F-5B, F-12B, and F-13B);**

**Three LVL presses (ID Nos. ES-5D, ES-12A, and ES-13A);**

**Three LVL surface coating spray booths (ID Nos. F-SCSBa, F-SCSBb, and F-SCSBc);**

**Two I-Beam assembly glue applicators (ID Nos. F-14a and F-14b);**

**Eight resin and wax storage tanks (ID Nos. ST1 through ST8);**

**Group 1 Miscellaneous Coating Operations (ID Nos. F-ECSB, F-15a, and F-15b); and**

**Natural gas direct-fired I-Beam curing tunnel (ID No. F-9);**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	<b>Applies to all sources listed in Section 2.2 A except ES-1 and ES-4F</b> Work practice standards	15A NCAC 2D .0958
Odorous emissions	<b>State-Enforceable Only</b> Odorous emissions shall be controlled	15A NCAC 2D .1806

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

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
  - i. Store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
  - ii. Clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
  - iii. Store wipe rags containing volatile organic compounds in closed containers,
  - iv. Not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
  - v. Transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
  - vi. Clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act.
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
  - i. Flush parts in the freeboard area,
  - ii. Take precautions to reduce the pooling of solvent on and in the parts,

- iii. Tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
- iv. Not fill cleaning machines above the fill line,
- v. Not agitate solvent to the point of causing splashing.

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

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

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

- d. The results of the inspections shall be maintained in a 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 inspection; and
  - ii. The results of each inspection noting whether or not noncompliant conditions were observed.

If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

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

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

**STATE-ENFORCEABLE ONLY**

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

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

**B. Facility-wide sources emitting toxic air pollutants, including:**

**Wood residual/bark-fired boiler and hot oil heater (ID No. ES-1);**

**Steam-heated veneer conditioning chamber (ID No. F-3);**

**Steam-heated roller jet hardwood veneer dryer (ID No. ES-4F)**

**Three LVL curtain coaters (ID Nos. F-5B, F-12B, and F-13B);**

**Three LVL presses (ID Nos. ES-5D, ES-12A, and ES-13A);**

**Three LVL surface coating spray booths (ID Nos. F-SCSBa, F-SCSBb, and F-SCSBc);**

**Two I-Beam assembly glue applicators (ID Nos. F-14a and F-14b); and**

**Natural gas direct-fired I-Beam curing tunnel (two burners with 4.25 million Btu per hour maximum heat input rate, each; ID No. F-9)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants (TAP)	State-Enforceable Only Limits on emissions of TAP	15A NCAC 2D .1100
	State-Enforceable Only Toxic Permit Emission Rates	15A NCAC 2Q .0705 and 15A NCAC 2Q .0711

**STATE-ENFORCEABLE ONLY****1. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS**

- a. Pursuant to 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" and in accordance with the approved application for an air toxic compliance demonstration, received by DAQ in October of 2007, the following permit limits shall not be exceeded:

<b>Emission Source(s)</b>	<b>Toxic Air Pollutant(s)</b>	<b>Emission Limit(s)</b>
Wood residual/bark-fired boiler and hot oil heater ( <b>ID No. ES-1</b> )	Acrolein Arsenic Benzene Cadmium Chlorine Formaldehyde HCl Manganese Phenol	22.4 pounds per hour 6.04 pounds per year 3153.6 pounds per year 140.2 pounds per year 388.8 pounds per day 0.77 pounds per hour 195.7 pounds per hour 321.6 pounds per day 0.0092 pounds per hour
Steam-heated roller jet hardwood veneer dryer ( <b>ID No. ES-4F</b> )	Acrolein Formaldehyde Phenol	0.06 pounds per hour 0.035 pounds per hour 0.076 pounds per hour
LVL Line 1 operations ( <b>ID Nos. F-5B, ES-5D, and F-SCSBa</b> )	Formaldehyde	0.5 pounds per hour
LVL Line 2 operations ( <b>ID Nos. F-12B, ES-12A, and F-SCSBb</b> )	Formaldehyde	0.58 pounds per hour
LVL Line 3 operations ( <b>ID Nos. F-13B, ES-13A, and F-SCSBc</b> )	Formaldehyde	1.13 pounds per hour
I-Beam assembly operations ( <b>ID Nos. F-9, F-14a, and F-14b</b> )	Phenol	1.83 pounds per hour

**Monitoring/Recordkeeping/Reporting**

- b. No monitoring, recordkeeping, or reporting is required for toxic air pollutant emissions from the above-listed sources (**ID Nos. ES-1, F-3, ES-4F, F-5B, F-9, F-12B, F-13B, ES-5D, ES-12A, ES-13A, F-14a, and F-14b**).

**STATE-ENFORCEABLE ONLY****2. 15A NCAC 2Q .0705 EXISTING FACILITIES and SIC CALLS; and 15A NCAC 2Q .0711: EMISSION RATES REQUIRING A PERMIT**

- a. As of October of 2007 the Permittee has demonstrated that emissions of toxic air pollutants (TAPs) from all sources at the facility (excluding those sources exempted under 15A NCAC 2Q .0702 "Exemptions") are either: (1) below their respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or (2) are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described in Section 2.2 B.1, above.
- b. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any TAP listed in 15A NCAC 2Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TPER listed in 15A NCAC 2Q .0711 without first obtaining an air permit to construct or operate.
- c. PRIOR to exceeding any of the TPERs listed in 15A NCAC 2Q .0711, the Permittee shall be responsible for obtaining an air quality permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- d. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 2Q .0711.
- e. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 2Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Acetaldehyde (75-07-0)				6.8
Beryllium (7440-41-7)	0.28			
Acetic acid (64-19-7)				0.96
Carbon tetrachloride (56-23-5)	460			
Chlorobenzene (108-90-7)		46		
Chloroform (67-66-3)	290			
Mercury (total)		0.013		
Methyl ethyl ketone (78-93-3)		78		22.4
Methyl isobutyl ketone (108-10-1)		52		7.6
Nickel (7440-02-0)		0.13		
Pentachlorophenol (87-86-5)		0.063	0.0064	
Styrene (100-42-5)			2.7	
Tetrachlorodibenzo-p-dioxin (1746-01-6)		0.00020		
Toluene (108-88-3)		98		14.4
Vinyl chloride (75-01-4)	26			
Xylene (1330-20-7)		57		16.4

- f. Air Permit Application Submittal Requirements - In accordance with 15A NCAC 2Q .0705(b), the Permittee is required to submit an air quality permit application demonstrating compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as follows:
- i. At the same time the Permittee submits an air quality permit application to comply with either the MACT standard promulgated by the EPA for combustion sources or the MACT standard promulgated by DAQ for combustion sources, as applicable; or
  - ii. Within six months of promulgation of either the MACT standard promulgated by the EPA for combustion sources or the MACT standard promulgated by DAQ for combustion sources, as applicable, if an air quality permit application is not required to comply with that MACT.
- g. The permit application demonstrating compliance with 15A NCAC 2D .1100 submitted pursuant to Section 2.2 B.2.f, above, shall include an evaluation for all toxic air pollutants covered under rule 15A NCAC 2D .1104 for all sources at the facility, excluding those sources exempt from such evaluation under 15A NCAC 2Q .0702.
- h. Compliance Deadline Date Requirement - The facility shall be in compliance with the 15A NCAC 2D .1100 Toxic Air Pollutants rule by the same deadline date that it is required to be in compliance with the applicable MACT standard for combustion sources.

**C. Facility-wide sources subject to 40 CFR Part 63, Subpart DDDD, including:**

- Log preparation operations (ID No. F-2B);**
- Steam-heated veneer conditioning chamber (ID No. F-3);**
- Green veneer chipper (ID No. ES-4D);**
- Steam-heated roller jet hardwood veneer dryer (ID No. ES-4F);**
- Veneer composer chipper (ID No. ES-6);**
- Three LVL curtain coaters (ID Nos. F-5B, F-12B, and F-13B);**
- Three LVL presses (ID Nos. ES-5D, ES-12A, and ES-13A);**
- Three LVL surface coating spray booths (ID Nos. F-SCSBa, F-SCSBb, and F-SCSBc);**
- Trim system for LVL Line 2 (ID No. ES-12);**
- Truck loadout bin for LVL Line 2 (ID No. F-12F);**
- Trim system for LVL Lines 1 and 3 (ID No. ES-13);**
- Truck loadout bin for LVL Lines 1 and 3 (ID No. F-13E);**
- Header operations and I-Beam assembly (ID No. ES-8);**
- Two I-Beam assembly glue applicators (ID Nos. F-14a and F-14b);**
- Natural gas direct-fired I-Beam curing tunnel (ID No. F-9);**
- Dry wood dust storage silo for header operations and I-Beam assembly (ID No. ES-10);**
- Truck loadout bin for header operations and I-Beam assembly (ID No. ES-10B);**
- Eight resin and wax storage tanks (ID Nos. ST1 through ST8); and**
- Group 1 Miscellaneous Coating Operations (ID Nos. F-ECSB, F-15a, and F-15b)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulations
Hazardous Air Pollutants	Maximum Achievable Control Technology [As defined in Section 2.2 C]	15A NCAC 2D .1111 [40 CFR 63, Subpart DDDD]

**1. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

**[40 CFR Part 63, Subpart DDDD - NESHAP for Plywood and Composite Wood Products (PCWP)]**

**Applicability** [40 CFR §§63.2231, .2233(b) and .2252]

- a. The Permittee owns/operates an existing affected source (see definition below) that is subject to Environmental Management Commission Standard 15A NCAC 2D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart DDDD "National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products." The Permittee shall comply with the applicable requirements therein and in 40 CFR Part 63, Subpart A "General Provisions" as cited in Table 10 of 40 CFR Part 63, Subpart DDDD, on and after October 1, 2007.

The process units that are not subject to the compliance options or work practice requirements of 40 CFR Part 63, Subpart DDDD (e.g. the LVL presses) are not subject to any requirements under 40 CFR Part 63, Subpart Subparts A or DDDD other than the initial notification requirements of §63.9(b).

- i. LVL presses ES-5D, ES-12A, and ES-13A do not qualify as reconstituted wood product presses as defined in Section 2.2 C.1.b, below. Therefore, these sources **are not subject** to the compliance options or operating requirements for reconstituted wood product presses found in 40 CFR Part 63, Subpart DDDD.
- ii. Veneer conditioning chamber F-3 is a batch operation and, therefore, does not qualify as a veneer redryer as defined in Section 2.2 C.1.b, below. Therefore, this source **is not subject** to the work practice requirements for veneer redryers found in 40 CFR Part 63, Subpart DDDD.

**Definitions** [40 CFR §§63.2232(b) and .2292]

- b. For the purpose of this permit condition, the definitions and nomenclature cited in 40 CFR §63.2292 shall apply. Some of the definitions and nomenclature cited in 40 CFR §63.2292 are reproduced below for ease of reference:

**Affected Source** means the collection of dryers, refiners, blenders, formers, presses, board coolers, and other process units associated with the manufacturing of PWCP. The affected source includes, but is not limited to, green end operations, refining, drying operations (including any combustion unit exhaust stream routinely used to direct fire process units), resin preparation, blending and forming operations, pressing and board cooling operations, and miscellaneous finishing operations (such as sanding, sawing, patching, edge sealing, and other finishing operations not subject to other NESHAP). The affected source also includes onsite storage and preparation of raw materials used in the manufacture of plywood and/or composite wood products, such as resins; onsite wastewater treatment operations specifically associated with plywood and composite wood products manufacturing; and miscellaneous coating operations. The affected source includes lumber kilns at PCWP manufacturing facilities.

**Deviation** means any instance in which an affected source, or an owner or operator of such a source:

- i. Fails to meet any requirement or obligation established by this subpart including, but not limited to, any compliance option, operating requirement, or work practice requirement;
- ii. Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart, and that is included in the operating permit for any affected source required to obtain such a permit; or
- iii. Fails to meet any compliance option, operating requirement, or work practice requirement in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart. A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

**Group 1 miscellaneous coating operations** means application of edge seals, nail lines, logo (or other information) paint, shelving edge fillers, trademark/gradestamp inks, and wood putty patches to plywood and composite wood products (except kiln-dried lumber) on the same site where the plywood and composite wood products are manufactured. Group 1 miscellaneous coating operations also include application of synthetic patches to plywood at new affected sources.

**Hardwood veneer dryer** means a dryer that removes excess moisture from veneer by conveying the veneer through a heated medium on rollers, belts, cables, or wire mesh. Hardwood veneer dryers are used to dry veneer with less than 30 percent softwood species on an annual volume basis. Veneer kilns that operate as batch units, veneer dryers heated by radio frequency or microwaves that are used to redry veneer, and veneer redryers (defined elsewhere in this section) that are heated by conventional means are not considered to be hardwood veneer dryers. A *hardwood veneer dryer* is a process unit.

**Miscellaneous coating operations** means application of any of the following to plywood or composite wood products: edge seals, moisture sealants, anti-skid coatings, company logos, trademark or grade stamps, nail lines, synthetic patches, wood patches, wood putty, concrete forming oils, glues for veneer composing, and shelving edge fillers. Miscellaneous coating operations also include the application of primer to oriented strandboard siding that occurs at the same site as oriented strandboard manufacture and application of asphalt, clay slurry, or titanium dioxide coatings to fiberboard at the same site of fiberboard manufacture.

**Non-HAP coating** means a coating with HAP contents below 0.1 percent by mass for Occupational Safety and Health Administration-defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0 percent by mass for other HAP compounds.

**Plywood and composite wood products (PCWP) manufacturing facility** means a facility that manufactures plywood and/or composite wood products by bonding wood material (fibers, particles, strands, veneers, etc.) or agricultural fiber, generally with resin under heat and pressure, to form a panel, engineered wood product, or other product defined in §63.2292. Plywood and composite wood products manufacturing facilities also include facilities that manufacture dry veneer and lumber kilns located at any facility. Plywood and composite wood products include, but are not limited to, plywood, veneer, particleboard, molded particleboard, OSB, hardboard, fiberboard, medium density fiberboard, laminated strand lumber, laminated veneer lumber, wood I-joists, kiln-dried lumber, and glue-laminated beams.

**Reconstituted wood product press** means a press, including (if applicable) the press unloader, that presses a resinated mat of wood fibers, particles, or strands between hot platens or hot rollers to compact and set the mat into a panel by simultaneous application of heat and pressure. Reconstituted wood product presses are used in the

manufacture of hardboard, medium density fiberboard, particleboard, and oriented strandboard. Extruders are not considered to be reconstituted wood product presses. A *reconstituted wood product press* is a process unit.

**Veneer redryer** means a dryer heated by conventional means, such as direct wood-fired, direct-gas-fired, or steam heated, that is used to redry veneer that has been previously dried. Because the veneer dried in a veneer redryer has been previously dried, the inlet moisture content of the veneer entering the redryer is less than 25 percent (by weight, dry basis). Batch units used to redry veneer (such as redry cookers) are not considered to be veneer redryers. A *veneer redryer* is a process unit.

**General Requirements** [40 CFR §63.2250]

- c. The Permittee shall comply with the general requirements of Sections 2.2 C.1.c.i and ii, below. If the Permittee does not comply with these general requirements then the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart DDDD:
- i. Operate the affected sources in compliance with the applicable work practice requirements as listed in Sections 2.2 C.1.d.i and ii, below, except during periods of source non-operation; and
  - ii. Operate and maintain the affected source, including control and monitoring equipment, if applicable, according to the provisions of 40 CFR §63.6(e)(1)(i). Specifically:
    - (A) 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 at all times.
    - (B) The Permittee shall correct any malfunctions as soon as practicable after occurrence.

**Work Practice Requirements** [40 CFR §§63.2241 and .2271 and Table 3 of Subpart DDDD]

- d. The Permittee shall comply with the work practice requirements of Sections 2.2 C.1.d.i and ii, below. If the Permittee does not comply with these work practice requirements then the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart DDDD:
- i. **Hardwood veneer dryer (ID No. ES-4F):** The Permittee shall process less than 30% softwood species in veneer dryer ES-4F on an annual volume basis.
  - ii. **Group 1 miscellaneous coating operations (ID Nos. F-ECSB, F-15a, and F-15b):** The edge seal application operation and the trademark application operations qualify as group 1 miscellaneous coating operations as defined in Section 2.2 C.1.b, above. The Permittee shall use only non-HAP coatings, as defined in Section 2.2 C.1.b, above, in these sources.

**Monitoring** [40 CFR §§63.2269, .2270, and .2271 and Tables 7 and 8 of Subpart DDDD]

- e. The Permittee shall comply with the monitoring requirements of Sections 2.2 C.1.e.i and ii, below. If the Permittee does not conduct this monitoring then the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart DDDD.
- i. **Hardwood veneer dryer (ID No. ES-4F):** The Permittee shall conduct monthly monitoring of the amount of softwood species and non-softwood species processed in veneer dryer ES-4F and calculate the percent softwood species processed in veneer dryer ES-4F on a rolling consecutive 12-month volume basis.
  - ii. **Group 1 miscellaneous coating operations (ID Nos. F-ECSB, F-15a, and F-15b):** The Permittee shall conduct monthly monitoring of the coating materials utilized in the group 1 miscellaneous coating operations (i.e. the LVL edge coating booth, the LVL trademark applicator, and the I-Beam trademark applicator) to ensure that only non-HAP coatings, as defined in Section 2.2 C.1.b, above, are utilized in those sources.

**Recordkeeping** [40 CFR §§63.2282 and .2283]

- f. The Permittee shall comply with the recordkeeping requirements of Sections 2.2 C.1.f.i and ii, below. If the Permittee does not conduct this recordkeeping then the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart DDDD.
- i. The Permittee shall maintain:
    - (A) A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart DDDD, including any documentation supporting the Initial Notifications or Notifications of Compliance Status, as required by 40 CFR §63.10(b)(2)(xiv);

- (B) A copy of the current SSM Plan, if applicable, and each previous (i.e., superseded) version of the SSM Plan, as required by 40 CFR §63.6(e)(3)(iii) through (v);
  - (C) Documentation of any approved routine control device maintenance exemption (RCDME), if applicable;
  - (D) The records of performance tests and performance evaluations, if applicable, as required by 40 CFR §63.10(b)(2)(viii); and
  - (E) Records of the monitoring conducted pursuant to Sections 2.2 C.1.e.i and ii, above.
- ii. The Permittee shall maintain the records described in Section 2.2 C.1.f.i(A) through (E), above, as applicable:
- (A) In a form suitable and readily available for expeditious review as specified in 40 CFR §63.10(b)(1) (i.e. in written or electronic format)
  - (B) For at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records shall be maintained on site for at least the first 2 years of this 5-year period but may be maintained offsite for the remainder of the 5 year period.

**Notifications** [40 CFR §§63.2280]

- g. The Permittee shall submit the following notifications, as applicable:
- i. Notification of intent to conduct a required performance test at least 60 days prior to the scheduled performance test and of any change in performance test date as required in 40 CFR §§63.7(b) and 63.9(e). The Permittee shall submit a copy of the performance test report to DAQ within 30 days of completion of the performance test.
  - ii. Notification of intent to conduct a performance evaluation of a continuous parameter monitoring system (CPMS) during a required performance test at least 60 days prior to the scheduled performance test as required in 40 CFR §§63.8(e) and 63.9(g). The Permittee shall submit a performance evaluation test plan to DAQ within 30 days of a written request by DAQ.
  - iii. Notification of Compliance Status [i.e. for new sources] as required in 40 CFR §63.9(h)(2)(ii).
  - iv. Notification of a request for RCDME pursuant to 40 CFR §63.2251.
  - v. Notification at least 30 days prior to modifying or replacing a CPMS installed on an affected source or changing the monitored parameter or the value of the monitored parameter that indicates compliance.

**Reporting** [40 CFR §§63.2281]

- h. The Permittee shall submit the following reports, as applicable:
- i. **Immediate SSM Reports:** The Permittee shall submit an immediate SSM report if a SSM event that causes an exceedance of an applicable emission standard is not handled in accordance with the SSM Plan. The Permittee shall report (by fax or telephone) the actions taken for the SSM event within 2 working days after commencing actions not consistent with the SSM Plan. In addition, the Permittee shall submit the information in 40 CFR §63.10(d)(5)(ii) by letter within 7 working days after the end of the event unless alternative arrangements have been made with DAQ. This information includes:
    - (A) The name, title, and signature of the owner or operator or other responsible official who is certifying the accuracy of the immediate SSM report;
    - (B) A description of the SSM event;
    - (C) The reasons for not following the SSM Plan;
    - (D) A description of all excess emissions and/or parameter monitoring exceedances which are believed to have occurred; and
    - (E) A summary of actions taken to minimize emissions during the SSM event.
  - ii. **Compliance Reports:** The Permittee shall submit semiannual compliance reports postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The semiannual compliance reports shall include the following information, as applicable:

- (A) General information including the company name and address, the date of the report, and the dates defining the period covered by the report.
- (B) A statement by a responsible official (with their name, title, and signature) certifying the truth, accuracy, and completeness of the content of the report.
- (C) The information in 40 CFR §63.10(d)(5)(i) if the facility experienced a SSM event during the reporting period that resulted in emissions that exceed an emission standard and the Permittee took actions consistent with their SSM Plan. This information includes the number, duration, and brief description of the SSM event(s) and a summary of actions taken to minimize emissions during the SSM event.
- (D) Any revision(s) made to the SSM Plan during the reporting period.
- (E) The information of 40 CFR §63.2281(c)(5) if the Permittee performs any maintenance on a control device associated with one or more affected sources while the control device is offline and one or more of the associated affected sources is operating. If the maintenance was included in an approved RCDME then also include the information of 40 CFR §63.2281(c)(5)(iii) in the report.
- (F) The results of any performance testing conducted on affected sources during the reporting period.
- (G) A statement that there were no deviations from the applicable compliance options, operating requirements, or work practice requirements for the affected sources during the reporting period, if applicable.
- (H) A statement that there were no periods during which a CPMS was out-of-control, as described in 40 CFR §63.8(c)(7), during the reporting period, if applicable.
- (I) The total operating time during the reporting period of each affected source for which the Permittee deviates from the applicable work practice requirements during the reporting period, if applicable, and information on the number, duration, and cause of the deviations (including unknown cause, if applicable) and the corrective actions taken.
- (J) The information of 40 CFR §63.2281(e)(1) through (11) for each deviation from the applicable compliance options or operating requirements (including SSM events and periods covered under an RCDME), as applicable. This information includes both general and specific information, as described below:
  - (1) **General information includes:** the date of the latest CPMS certification or audit and a brief description of the process units, the CPMS, and any changes in the CPMS or processes since the last semiannual reporting period.
  - (2) **Specific information includes,** as applicable:
    - (a) The time, date, and duration of each deviation [including periods during which a CPMS was inoperative (except for low-level and high-level checks) or out-of-control (as described in 40 CFR §63.8(c)(7))];
    - (b) Descriptions of corrective actions taken;
    - (c) A statement of whether each deviation occurred during a SSM event, a period covered under the RCDME, or during another period;
    - (d) A summary of the total duration of the deviation (expressed in units of time and as a percent of the total source operating time) during that reporting period;
    - (e) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, CPMS problems, control device maintenance, process problems, other known causes, and other unknown causes; and
    - (f) A summary of the total duration of CPMS downtime (in units of time and as a percent of the total source operating time) during that reporting period.

### **SECTION 3 - GENERAL CONDITIONS (version 3.1)**

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

A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]

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

B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]

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

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

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

D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]

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

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

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

E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 2Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.

2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 2Q .0524 and 2Q .0505]

The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 2Q.0524 and 2Q .0505.

3. Minor Permit Modifications [15A NCAC 2Q .0515]

The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 2Q .0515.

4. Significant Permit Modifications [15A NCAC 2Q .0516]

The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 2Q .0516.

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

The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 2Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 shall be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

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

2. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
  - i. the changes are not a modification under Title I of the Federal Clean Air Act;
  - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
  - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
  - iv. the Permittee shall attach the notice to the relevant permit.
- c. The written notification shall include:
  - i. a description of the change;
  - ii. the date on which the change will occur;
  - iii. any change in emissions; and
  - iv. any permit term or condition that is no longer applicable as a result of the change.

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

3. Off Permit Changes [15A NCAC 2Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
- b. the change is not covered under any applicable requirement.

4. Emissions Trading [15A NCAC 2Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

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

[15A NCAC 2D .0535(f) and 2Q .0508(f)(2)]

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

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

**Excess Emissions**

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

**Permit Deviations**

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

**I.B. Other Requirements under 15A NCAC 2D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .0535(c) as follows:

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

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

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

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

**K. Permit Renewal [15A NCAC 2Q .0508(e) and 2Q .0513(b)]**

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

**L. Need to Halt or Reduce Activity Not a Defense [15A NCAC 2Q .0508(i)(4)]**

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

**M. Duty to Provide Information (submittal of information) [15A NCAC 2Q .0508(i)(9)]**

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

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]

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

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]

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

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

Q. **Certification by Responsible Official** [15A NCAC 2Q .0520]

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

R. **Permit Shield for Applicable Requirements** [15A NCAC 2Q .0512]

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

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 2Q .0519]

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

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;

4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 2Q .0503]

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

U. **Property Rights** [15A NCAC 2Q .0508(i)(8)]

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

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

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

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

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

W. **Annual Fee Payment** [15A NCAC 2Q .0508(i)(10)]

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

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

The Permittee shall report by June 30 of each year the actual emissions of each air pollutant listed in 15A NCAC 2Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality shall be in accordance with 15A NCAC 2Q .0107.

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

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 2Q .0100 and .0300.

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

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

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

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

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 2Q .0501(e)]

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

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 2Q .0508(h)]

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

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

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

FF. **Title IV Allowances** [15A NCAC 2Q .0508(i)(1)]

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

GG. **Air Pollution Emergency Episode** [15A NCAC 2D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 2D .0300.

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

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 2D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 2D .0501(e)]

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

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

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

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

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

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

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

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

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

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

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

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

**NN. Specific Permit Modifications [15A NCAC 2Q .0501 and .0523]**

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

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

**OO. Mandatory Greenhouse Gas Reporting Requirements [15A NCAC 2Q .0508]**

**FEDERALLY-ENFORCEABLE ONLY**

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

**ATTACHMENT 1 to Permit No. 07668T21**  
**Georgia-Pacific Wood Products, LLC – Roxboro**

**List of Acronyms**

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>CAA</b>	Clean Air Act
<b>CAIR</b>	Clean Air Interstate Rule
<b>DAQ</b>	Division of Air Quality
<b>DENR</b>	Department of Environment and Natural Resources
<b>EMC</b>	Environnemental 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>I&amp;M</b>	Inspection and Maintenance
<b>MACT</b>	Maximum Achievable Control Technology
<b>MRR</b>	Monitoring, Recordkeeping, and Reporting
<b>NAA</b>	Non-Attainment Area
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAPS</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound