



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

Beverly Eaves Purdue  
Governor

Shelia C. Holman  
Director

Dee Freeman  
Secretary

XX XX, 2011

Mr. Guenter F. Heyen  
President and Chief Executive Officer  
Unilin Flooring N.V.  
149 Homanit USA Road  
Mount Gilead, North Carolina 27306

Dear Mr. Heyen:

SUBJECT: Air Quality Permit No. 08803T15  
Facility ID: 6200061  
Unilin Flooring N.V.  
Mount Gilead  
Montgomery County  
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for significant modification of a Title V permit received December 20, 2010, we are forwarding herewith Air Quality Permit No. 08803T15 to Unilin Flooring N.V., Mount Gilead, Montgomery County, 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.

---

**Permitting Section**

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

One  
North Carolina  
*Naturally*

Mr. Guenter F. Heyen

XX XX, 2011

Page 2

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

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

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from XX XX, 2011 until April 30, 2012 is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Charles F. Yirka at (919) 715-6250.

Sincerely yours,

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

Enclosure

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

**ATTACHMENT to cover letter for Air Quality Permit No. 08803T15  
Changes to Existing Title V Air Permit No. 08803T14**

Existing Condition No.	New Condition No.	Changes
Cover Letter	Same	<ul style="list-style-type: none"> <li>• Updated permit revision numbers, issue, effective dates, etc.</li> <li>• Removed language concerning minor modification as the conditions are now final as of February 1, 2011.</li> </ul>
Page 1	Same	<ul style="list-style-type: none"> <li>• Updated permit revision numbers, issue, effective dates, etc.</li> </ul>
Page 3-4 Section 1 Table Equipment List	Same	<ul style="list-style-type: none"> <li>• Removed NSPS Subpart Db designation from the descriptor for ES-HP</li> <li>• Remove asterisk and footnote associated with ES-EVAP evaporator</li> </ul>
Page 5 2.1 A	Page 6 2.1A	<ul style="list-style-type: none"> <li>• Removed pollutants particulate matter, opacity, and fuel usage and NSPS Db from table</li> </ul>
Page 7-8 2.1 A.3 and A.4	Page 8-9 2.1 A.3	<ul style="list-style-type: none"> <li>• Added daily monitoring recordkeeping and reporting for 2D .0521</li> <li>• Removed entire condition for NSPS Db</li> </ul>
Page 10 2.1 B.3.c and B.3.d Monitoring conditions	Page 12 2.1 B.3.c and B.3.d Monitoring conditions	<ul style="list-style-type: none"> <li>• Monitoring for 2D. 0521; the Normal Operating Scenario had referred to NSPS Db COMS monitoring requirements, now refers to 2D .0521 monitoring that replaced the NSPS COMS</li> <li>• Removed alternative condition associated with the <b><i>“Bypass Operating Scenario”</i></b> for NSPS since the NSPS no longer applies and COMS are no longer required</li> </ul>
NA	Page 30 Section 2.3 Permit Shield	<ul style="list-style-type: none"> <li>• Insert permit shield indicating the NSPS Db does not apply to the heating plant ID No. ES-HP</li> </ul>
Throughout Permit- All 2D .0521 Monitoring conditions	Same	<ul style="list-style-type: none"> <li>• Revised all 2D .0521 monitoring conditions c ii to reference 2D .2610 instead of 2D .2601, as it is the specific regulation that addresses the use of Method 9 for opacity.</li> </ul>
Page 29-37 General Conditions version 3.3	Page 31-41 General Conditions version 3.4	<ul style="list-style-type: none"> <li>• Replace General Conditions with current version including a revised condition JJ. and new condition OO.</li> </ul>

**ATTACHMENT to cover letter to Air Quality Permit No. 08803T15**

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

<b>Emission Source ID</b>	<b>Emission Source Description</b>
<b>I-F1</b>	Raw material unloading operations
<b>I-F2</b>	Covered shavings building
<b>I-F3</b>	Roundlog chips handling/storage operations
<b>I-F4</b>	Sawmill chip handling/storage
<b>I-F5</b>	Fuel chips handling/storage
<b>I-F6</b>	Overflow chip handling
<b>I-F7</b>	Chip handling infeed to process
<b>I-F35</b>	Sanderdust truck loading
<b>I-PUMP</b>	Diesel Fuel-Fired Fire Pump (265 HP)
<b>MACT Subpart ZZZZ</b>	
<b>I-PW1,PW2 and PW3</b>	Three parts washers

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".
3. For additional information regarding the applicability of GACT see the DAQ page titled "The Regulatory Guide for Insignificant Activities/Permits Exempt Activities". The link to this site is as follows:  
<http://daq.state.nc.us/permits/insig/>

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
08803T15	08803T14	XX XX, 2011	April 30, 2012

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

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

**Permittee:** **Unilin Flooring N.V.**

**Facility ID:** **6200061**

**Facility Site Location:** **149 Homanit USA Road**  
**City, County, State, Zip:** **Mount Gilead, Montgomery County, North Carolina 27306**  
**Mailing Address:** **149 Homanit USA Road**  
**City, State, Zip:** **Mount Gilead, North Carolina 27306**

**Application Number:** **6200061.10D**  
**Complete Application Date:** **XX XX, 2011**  
**Primary SIC Code:** **2493**  
**Division of Air Quality:** **Fayetteville Regional Office**  
**Regional Office Address:** **Wachovia Building**  
**225 Green Street, Suite 714**  
**Fayetteville, NC 28301**

Permit issued this the XX<sup>nd</sup> day of XX, 2011

---

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)
- 2.3- Permit Shield for Nonapplicable Requirements

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-HP (MACT, Subpart DDDD)	One Heating Plant consisting of: -One wood-fired boiler (130 million Btu per hour maximum heat input capacity; <b>No. -1</b> ); -One sanderdust duct burner system (52 million Btu per hour maximum heat input capacity; <b>No. -2</b> ); -Two No. 2 fuel oil-fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; <b>Nos. -3 and -4</b> ); -One No. 2 fuel oil-fired auxiliary burner (75 million Btu per hour maximum heat input capacity; <b>No. -5</b> ) -Two natural gas fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; <b>Nos. -6 and -7</b> ); -One natural gas fired auxiliary burner (75 million Btu per hour maximum heat input capacity; <b>No. -8</b> )	CD-01 CD-SNCR, CD-SCRB, and CD-RTO	One multicyclone (304, 9 inch diameter tubes), one selective non-catalytic reduction unit, one aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator, and one natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer, all installed in series
ES-DRY ES-BP ES-RFN (MACT, Subpart DDDD)	-One blowline flash-tube dryer -One hot oil heated continuous board press -One pressurized refiner	CD-SCRB CD-RTO	One aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator and one natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer in series
ES-F-08	Board breaker and conveyor (fugitive emission source)	NA	NA
ES-F-09	Board breaker and conveyor (14 tons per hour throughput capacity) (fugitive emission source)	NA	NA
ES-F-BC (MACT, Subpart DDDD)	Board cooling and stacking area (fugitive emission source)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-21 (MACT, Subpart DDDD)	One dried fiber grader system No. 1	CD-CY21 and CD-FF21	One simple cyclone (140 inches in diameter) installed in series with one bagfilter (3,702 square feet of filter area)
ES-22 (MACT, Subpart DDDD)	One dried fiber grader system No. 2	CD-CY22 and CD-FF22	One simple cyclone (140 inches in diameter) installed in series with one bagfilter (3,702 square feet of filter area)
ES-23 (MACT, Subpart DDDD)	One mat trimmings return air system	CD-CY23a, CD-CY23b, and CD-FF23	Two parallel simple cyclones (124 inches in diameter and 157 inches in diameter, respectively) installed in series with one bagfilter (15,069 square feet of filter area)
ES-FHS (MACT, Subpart DDDD)	Pneumatic chip handling infeed system	CD-CYFHS	High efficiency cyclone (78 inches in diameter) installed in series with one bagfilter (15,069 square feet of filter area)
		CD-FF-23	
ES-31 (MACT, Subpart DDDD)	One fine sanderdust pneumatic conveyor system	CD-FF31	One bagfilter (6,150 square feet of filter area)
ES-32 (MACT, Subpart DDDD)	One coarse sanderdust pneumatic conveyor system	CD-FF32	One bagfilter (8,680 square feet of filter area)
ES-33 (MACT, Subpart DDDD)	One sawing and cutting pneumatic conveyor system	CD-FF33	One bagfilter (4,650 square feet of filter area)
ES-34 (MACT, Subpart DDDD)	One press trim saw and dust collection system	CD-CY34 and CD-FF34	One simple cyclone (98 inches in diameter) installed in series with one bagfilter (3,020 square feet of filter area)
ES-40a, b, c, d, and e (NSPS Subpart Kb; MACT, Subpart DDDD)	Five fixed roof resin storage tanks (30,000, 30,000, 30,000, 30,000, and 25,000 gallon capacity, respectively)	NA	NA

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
ES-40f <b>(NSPS, Subpart Kb; MACT, Subpart DDDD)</b>	One fixed roof wax storage tank (25,000 gallon capacity)	NA	NA
ES-41	One No. 2 fuel oil-fired 500 kW emergency generator	NA	NA
ES-50	One rotographic surface coating line	NA	NA
ES-EVAP <b>(MACT Subpart DDDD)</b>	Natural Gas-fired Evaporator (750 gallons per hour maximum process rate, 7.55 million Btu per hour maximum heat input rate)	NA	NA

## 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) listed below are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements as specified herein:

#### A. One heating plant (ID No. ES-HP) consisting of:

- one wood-fired boiler (ID No. ES-HP-1);
- one sanderdust duct burner system (ID No. ES-HP-2);
- two No. 2 fuel oil-fired auxiliary burners (ID Nos. ES-HP-3 and ES-HP-4);
- one No. 2 fuel oil-fired auxiliary burner (ID No. ES-HP-5),
- two natural gas fired auxiliary burners (ID Nos. ES-HP-6 and ES-HP-7);
- one natural gas fired auxiliary burner (ID No. ES-HP-8);

with associated multicyclone (ID No. CD-01), selective non-catalytic reduction unit (ID No. CD-SNCR), aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator (ID No. CD-SCRB), and natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer (ID No. CD-RTO), all in series.

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$Ec = [(0.37)(Qw) + (0.29)(Qo)] / (Qw + Qo)$ Where Qw = actual wood heat input rate in Btu per hour Qo = actual oil heat input rate in Btu per hour	15A NCAC 2D .0504
Sulfur Dioxide	<i>While firing wood and/or natural gas only</i> 2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	<i>While firing natural gas only</i> 20% opacity	15A NCAC 2D .0521
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B</b>	15A NCAC 2Q .0711
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)

**1. 15A NCAC 2D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS**

- a. Emissions of particulate matter from the combustion of a combination of wood and No. 2 fuel oil or natural gas that are discharged from this source (**ID No. ES-HP**) into the atmosphere shall not exceed an allowable emission rate as calculated by the following equation:

$$E = [(0.37)(Q_w) + (0.29)(Q_o)] / (Q_w + Q_o)$$

Where  $Q_w$  = actual wood heat input rate in Btu per hour, and  
 $Q_o$  = actual fuel oil heat input rate in Btu per hour.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

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

- c. Particulate matter emissions from this source (**ID No. ES-HP**) shall be controlled by one multicyclone (**ID No. CD-01**), one selective non-catalytic reduction unit (**ID No. CD-SNCR**), one aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**), and one natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer (**ID No. CD-RTO**), all in series except as provided in Section 2.1 A.1.e and f below. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. a monthly visual inspection of the system ductwork and material collection units (**ID Nos. CD-01 and CD-SCRB**) for leaks; and
  - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the heat transfer medium and associated inlet/outlet valves (**ID No. CD-RTO**) and aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) structural integrity.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the ductwork and control devices are not inspected and maintained.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the control devices; 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.
- e. The Permittee is allowed to operate the heating plant (**ID No. ES-HP**) without operating the SNCR unit (**ID No. CD-SNCR**). When operating the SNCR unit, the Permittee is allowed to use either urea water or recycle water in the SNCR unit. The Permittee shall on a periodic basis, perform inspections and maintenance on the SNCR unit (**ID No. CD-SNCR**), per the manufacturer's recommendations. In addition to the manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance shall include, regardless of operating time, an annual (for each 12 month period following the initial inspection) inspection of

the system ductwork and associated inlet/outlet valves. The inspection and maintenance operations shall be recorded in a logbook.

- f. During periods of routine control device maintenance downtime as described in application No. 6200061.07B, particulate matter emissions from this source (**ID No. ES-HP**) shall be controlled by one multicyclone (**ID No. CD-01**) and one selective non-catalytic reduction unit (**ID No. CD-SNCR**), all in series except as provided in Section 2.1 A.1.e above.

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

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

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

- a. Emissions of sulfur dioxide from this source (**ID No. ES-HP**) shall not exceed 2.3 pounds per million Btu heat input while firing wood fuel, natural gas, or No. 2 fuel oil. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of wood fuel, natural gas, or No. 2 fuel oil in this source (**ID No. ES-HP**).

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

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

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

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

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

- c. To assure compliance, once a day the Permittee shall observe the emission points of this source (**ID No. ES-HP**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period that this emission source is in operation to ensure compliance with this requirement. For days when this emission source is not operating, the client shall document "not operating" in the recordkeeping associated with this permit condition. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. **The**

**Permittee shall establish “normal” for the source in the first 30 days following the effective date of the permit.** If visible emissions from this source are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3. a. above.

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

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

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

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

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

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

- B. One blowline flash-tube dryer (ID No. ES-DRY);  
One hot oil heated continuous board press (ID No. ES-BP); and  
One pressurized refiner (ID No. ES-RFN);**

**all controlled by one aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator (ID No. CD-SCRB) and one natural gas/No. 2 oil-fired regenerative thermal oxidizer (ID No. CD-RTO) in series.**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
-	<b>(ES-RFN only)</b> Start-up Restrictions	15A NCAC 2D .0501
Particulate matter	$E = 4.10 \times P^{0.67}$ Where E=allowable emission rate in pounds per hour P=process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Toxics air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B.1</b>	15A NCAC 2Q .0711
Toxic air pollutants	<b>(ES-DRY and ES-BP only)</b> <b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B.3</b> Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705

### **1. 15A NCAC 2D .0501: COMPLIANCE WITH EMISSION CONTROL STANDARDS**

In accordance with 15A NCAC 2D .0501(e) and as part of the required modeling demonstration, the Permittee modeled start-up conditions for the refiner operation (**ID No. ES-RFN**) bypassing the flashtube dryer (**ID No. ES-DRY**) and RTO (**ID No. CD-RTO**) controls. As a result, the Permittee shall comply with the following restrictions:

- a. Start-up while charging the refiner (**ID No. ES-RFN**) [bypassing the flashtube dryer (**ID No. ES-DRY**) and RTO (**ID No. CD-RTO**) control device] while venting to the start-up cyclone shall not exceed one hour per 24 hour period; and
- b. For all start-ups, the Permittee shall record the date, time and duration that the refiner (**ID No. ES-RFN**) operated in the start-up bypass mode. These records shall be maintained by the Permittee for a minimum of five years and made available to the Division upon request.

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

- a. Emissions of particulate matter from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) shall not exceed an allowable emission rate as calculated by the following equation:

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

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

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

- b. The Permittee shall perform emissions testing on the bypass stack (indicated as EP11 in application No. 6200061.07B) in accordance with General Condition JJ. The testing shall be per DAQ approved protocol after issuance of Permit No, 08803T13 and during the first routine control device maintenance event conducted in accordance with the 40 CFR Part 63 Subpart DDDD requirements. If the testing is not conducted or 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 .0515.

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

- c. Particulate matter emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) shall be controlled by one aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) and one natural gas/No. 2 oil-fired regenerative thermal oxidizer (**ID No. CD-RTO**) in series except as allowed per condition e. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. a monthly visual inspection of the system ductwork and material collection unit (**ID No. CD-SCRB**) for leaks; and
  - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the heat transfer medium and associated inlet/outlet valves (**ID No. CD-RTO**) and aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) structural integrity.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and control devices are not inspected and maintained.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the control devices; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.
- e. During periods of routine control device maintenance downtime as described in application no. 6200061.07B, particulate matter emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) are permitted to be emitted out of the bypass stack (EP11 as described in application No. 6200061.07B) without control by one aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator (**ID No. CD-SCRB**) and one natural gas/No. 2 oil-fired regenerative thermal oxidizer (**ID No. CD-RTO**) in series.

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

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

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

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

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

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

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

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

##### ***Normal Operating Scenario***

- c. The Permittee shall comply with the monitoring Section 2.1.A.3. above.

##### ***Bypass Operating Scenario***

- d. During periods in which the emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) are not being controlled by the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) and one natural gas/No. 2 oil-fired regenerative thermal oxidizer (**ID No. CD-RTO**), the Permittee shall, once per day observe the emission point of this source for any visible emissions above normal. This observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall establish "normal" for these sources during operation of the first bypass operating scenario after issuance of permit no. T13. 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 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3. a. above.

The Permittee shall be deemed in noncompliance with 15A NCAC .0521 if the monitoring requirements in conditions c. through d. are not met.

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

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

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

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

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

- C. **One dried fiber grader system No. 1 (ID No. ES-21) controlled by one simple cyclone (ID No. CD-CY21) in series with one bagfilter (ID No. CD-FF21);**  
**One dried fiber grader system No. 2 (ID No. ES-22) controlled by one simple cyclone (ID No. CD-CY22) in series with one bagfilter (ID No. CD-FF22);**  
**One mat trimmings return air system (ID No. ES-23) controlled by two parallel simple cyclones (ID Nos. CD-CY23A and CD-CY23B) in series with one bagfilter (ID No. CD-FF23);**  
**One fine sanderdust pneumatic conveyor system (ID No. ES-31) controlled by one bagfilter (ID No. CD-FF31);**  
**One coarse sanderdust pneumatic conveyor system (ID No. ES-32) controlled by one bagfilter (ID No. CD-FF32);**  
**One sawing and cutting pneumatic conveyor system (ID No. ES-33) controlled by one bagfilter (ID No. CD-FF33); and**  
**One press trim saw and dust collection system (ID No. ES-34) controlled by one simple cyclone (ID No. CD-CY34) in series with one bagfilter (ID No. CD-FF34)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 2D .0512
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 2Q .0711
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B.3</b> Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705

**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.

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

- b. Particulate matter emissions from the wood material collection systems (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) shall be controlled by five cyclones (**ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34**) and seven bagfilters (**ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34**) as listed above. 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 inspection of the ductwork, cyclones (**ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34**), and bagfilters (**ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34**) noting the structural integrity; and
  - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters (**ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34**) 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, cyclones and bagfilters are not inspected and maintained.

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

- c. The results of inspection and maintenance for the cyclones (**ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34**) and bagfilters (**ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34**) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of 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)]

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

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

- a. Visible emissions from these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. The Permittee shall establish “normal” for these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) in the first 30 days following the effective date of the permit. If visible emissions from these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) 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 02D .2610 (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)]

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

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

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

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

**D. Five fixed roof resin storage tanks (ID Nos. ES-40a through ES-40e), and One fixed roof wax storage tank (ID No. ES-40f)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Volatile organic compounds	Tank dimension and capacity records retention	15A NCAC 2D .0524 (40 CFR 60, Subpart Kb)
Toxic air pollutants	<b>(ES-40a through –40e, only)</b>	15A NCAC 2Q .0711

Regulated Pollutant	Limits/Standards	Applicable Regulation
	<b>State-enforceable only</b> <b>See Section 2.2 B</b>	
Toxic air pollutants	<b>(ES-40a through –40e, only)</b> <b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B.3</b> Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705

### 1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

- a. For the resin storage tanks (**ID Nos. ES-40a through ES-40e**) and the wax storage tank (**ID No. ES-40f**), the Permittee shall comply with all applicable provisions, including paragraphs 60.116b(a) and (b), contained in the Environmental Management Commission Standards 15A NCAC 2D .0524 “New Source Performance Standards (NSPS)” as promulgated in 40 CFR Subpart Kb. The Permittee shall maintain a list of tanks, recording the tanks’ dimensions and capacity. The Permittee shall be deemed in noncompliance with 40 CFR 60, Subpart Kb if records are not kept.

#### E. One No. 2 fuel oil-fired 500 kW emergency generator (ID No. ES-41)

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

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
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B</b>	15A NCAC 2Q .0711

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

- a. Emissions of sulfur dioxide from this source (**ID No. ES-41**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil for this source (**ID No. ES-41**).

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

- a. Visible emissions from this source (**ID No. ES-41**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in this source (**ID No. ES-41**).

**F. Two fugitive board breaking and conveyor systems (ID No. ES-F-08 and ES-F-09), and One fugitive board cooling and stacking area (ID No. ES-F-BC)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
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 2Q .0711
Toxic air pollutants	<b>(ES-F-BC only)</b> <b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>(ES-F-BC only)</b> <b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products Production	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 B.3</b> Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705

**1. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID No. ES-F-08, ES-F-BC and ES-F-09**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.1.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 these sources (**ID Nos. ES-F-08, ES-F-BC and ES-F-09**).

**G. One rotographic surface coating line (ID No. ES-50)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Volatile organic compounds	Work Practice Standards <b>See Section 2.2 A</b>	15A NCAC 2D .0958

**H. Pneumatic chip handling infeed system (ID No. ES-FHS) controlled by one high efficiency cyclone (78 inches in diameter) (ID No. CD-CYFHS) installed in series with one bagfilter (15,069 square feet of filter area) (ID No. CD-FF23)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521

**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.

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

- b. Particulate matter emissions from the pneumatic chip handling infeed system (**ID No. ES-FHS**) shall be controlled by one cyclone (**ID No. CD-CYFHS**) and one bagfilter (**ID No. CD-FF-23**). 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 inspection of the ductwork, cyclones, and/or bagfilters noting the structural integrity; and
  - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters (eliminate if there are not any 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, cyclones and/or bagfilters and are not inspected and maintained.

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

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

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

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

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

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

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

- a. Visible emissions from pneumatic chip handling infeed system (**ID No. ES-FHS**) controlled by one cyclone (**ID No. CD-CYFHS**) and one bagfilter (**ID No. CD-FF-23**) 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 2Q .0508(f)]

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

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish normal for the source in the first 30 days following the effective date of the permit. 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 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1.H.2.a. above.

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

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

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

- ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

**I. Natural Gas-fired Evaporator (750 gallons per hour maximum process rate, 7.55 million Btu per hour maximum heat input rate) (ID No. ES-EVAP)**

The following provides a summary of limits and/or standards for the emission source(s) described above. A review of the information in the application was performed to ensure the appropriate limits and associated calculations used to show compliance were correct.

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate Matter	$E = 4.10 \times P^{0.67}$ Where E=allowable emission rate in pounds per hour P=process weight in tons per hour	15A NCAC 2D .0515
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Toxic air pollutants	<b>State-enforceable only</b> <b>See Section 2.2 C.1</b>	15A NCAC 2D .1100
Hazardous air pollutants	<b>See Section 2.2 B.2</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)

**1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 02D .0515(a)]

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

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

- c. No monitoring, recordkeeping or reporting is required for particulate matter emissions from this source.

**2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source 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 02D .0516]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from this source.

**3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source 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 02D .0521 (d)]

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

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

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

- c. No monitoring, recordkeeping or reporting is required for visible emissions from this source.

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

### A. Facility-wide affected sources

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

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

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day, the Permittee shall:
- store all material, including waste material, containing VOCs in tanks or containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
  - clean up spills of VOCs as soon as possible following proper safety procedures,
  - store wipe rags containing VOCs in closed containers,
  - not clean sponges, fabric, wood, paper products, and other absorbent materials with VOCs,
  - transfer solvents containing VOCs 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, and
  - clean mixing, blending, and manufacturing vats and containers containing VOCs by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank, or a treatment facility regulated under Section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]

#### **Monitoring** [15A NCAC 2Q .0508(f)(8)]

- b. To assure compliance with paragraph a. above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing VOCs. 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)]

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

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

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

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

**B. Facility-wide affected sources**

<b>Regulated Pollutant (CAS)</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>	
Acetaldehyde (75-07-0)	6.8 pounds per hour	15A NCAC 2Q .0711	
Methyl ethyl ketone (78-93-3)	78 pounds per day per hour		22.4 pounds
Methyl isobutyl ketone (108-10-1)	52 pounds per day per hour		7.6 pounds
Styrene (100-42-5)	2.7 pounds per hour		
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)	
Toxic air pollutants	<b>State-enforceable only</b> Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705	

**State-enforceable only**

**1. 15A NCAC 2Q .0711: TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT**

Pursuant to 15A NCAC 2Q .0711 “Emission Rates Requiring a Permit,” for each of the above listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711.

- a. A Permit to emit any of the above listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 “Control of Toxic Air Pollutants”.
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below.

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

**Applicability** [40 CFR 63.2231]

- a. For the emission sources subject to “**MACT Subpart DDDD**” as indicated in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDD . National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

**Definitions and Nomenclature** [40 CFR 63.2292]

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.2292 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.2290]

- c. The Permittee shall comply with the requirements of 40 CFR, 63 Subpart A General Provisions according to the applicability of Subpart A to such sources, as identified in Table 10 to 40 CFR Part 63, Subpart DDDD

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

- d. For the following emission sources, the Permittee shall comply with **ONE of the following** three pollutant emission limitations by using the regenerative thermal oxidizer (ID No. CD-RTO), EXCEPT as allowed under condition e. [40 CFR 63.2240(b), .2251]

Source	Source ID No.	Ultimate Control Device	Pollutant	MACT Limitation
Heating Plant	ES-HP	Natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer (ID No. CD-RTO)	Formaldehyde	90% reduction
Blowline flash-tube dryer	ES-DRY		Methanol	90% reduction
Hot oil heated continuous board press	ES-BP		Total HAP measured as THC (as carbon)*	90% reduction
Pressurized refiner	ES-RFN			

\* You may choose to subtract methane from THC as carbon measurements

- e. The emission limitations in d. do not apply during times when control device maintenance covered under the approved routine control device maintenance exemption (per application 6200061.07B) is performed. The Permittee must minimize emissions to the greatest extent possible during these routine control device maintenance periods. [40 CFR 63.2251]
- f. Operation of the process units controlled as described in d. during periods of routine control device maintenance as requested in application no. 6200061.07B must not exceed 3 percent of annual operating uptime for each process unit controlled. [40 CFR 63.2251]
- g. The Permittee shall operate the board press (ID No. ES-BP) in an enclosure that meets the definition of a wood products enclosure in 40CFR 63.2292.
- h. The Permittee must always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.2250(b)]
- i. The Permittee must develop a written Startup, Shutdown, and Malfunction Plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.2250(c)]
- j. To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down. [40 CFR 63.2251(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the operating requirements in d. through j. are not met.

**Affected Sources Not Subject to Operating Requirements** [40 CFR 63.2252]

- k. For process units not subject to the operating requirements in paragraph (d) through (h), The Permittee is not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this 40

CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A except for the initial notification requirements in 40 CFR 63.9(b).

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

- l. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in paragraph d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

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

- m. The Permittee shall monitor and record the RTO (ID No. CD-RTO) firebox temperature at all times that the process unit is operating, except for, as appropriate:
  - i. monitor malfunctions, associated repairs, required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments) [40 CFR 63.2270(a)];
  - ii. periods of startup, shutdown, and malfunction; [40 CFR 63.2250] and
  - iii. routine control device maintenance downtime events as approved in application no. **6200061.07B**. [40 CFR 63.2251]
- n. The Permittee shall maintain the 3-hour block average firebox temperature at or above 1206°F. The 3-hour block average temperature may be revised administratively pending final review of the source test report by the DAQ. [40 CFR 63.2240(b)]
- o. For the temperature monitoring system for the RTO (ID No. CD-RTO), the Permittee must meet the requirements in 40 CFR 63.2269(a)(1) through (3) and (b)(1) through (6).
- p. For purposes of calculating data averages, the Permittee must not use data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities. The Permittee must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitute a deviation from the monitoring requirements. [40 CFR 63.2270(b)]
- q. The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities; data recorded during periods of startup, shutdown, and malfunction; or data recorded during periods of control device downtime covered in any approved routine control device maintenance exemption in data averages and calculations used to report emission or operating levels, nor may such data be used in fulfilling a minimum data availability requirement, if applicable. The Permittee must use all the data collected during all other periods in assessing the operation of the control system. [40 CFR 63.2270(c)]
- r. The Permittee shall determine the 3-hour block average of all recorded readings, calculated after every 3 hours of operation as the average of the evenly spaced recorded readings in the previous 3 operating hours (excluding periods described in paragraphs (p) and (q)). [40 CFR 63.2270(d)]
- s. To calculate the data averages for each 3-hour or 24-hour averaging period, the Permittee must have at least 75 percent of the required recorded readings for that period using only recorded readings that are based on valid data (i.e., not from periods described in paragraphs (p) and (q)). [40 CFR 63.2270(f)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the monitoring requirements in m. through s. are not met.

**Recordkeeping Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.2282 and .2283]

- t. The Permittee must keep the following:
  - i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
  - ii. The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
  - iii. Documentation of the approved routine control device maintenance exemption, requested under 40 CFR 63.2251.
  - iv. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
  - v. The associated records for conditions (m) through (s).
- u. The Permittee must maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). [40 CFR 63.2283(a)]
- v. As specified in §63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.2283(b)]
- w. The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.2283(c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per conditions t. through w.

**Notification Requirements** [40 CFR 63.2280]

- x. The Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified. [40 CFR 63.2280(a)]
- y. The Permittee must notify the EPA Administrator within 30 days before any of the following actions are taken: [40 CFR 63.2280(g)]
  - i. The modification or replacement the control system for any process unit subject to the compliance options and operating requirements in paragraph (d).
  - ii. the changing of the 3-hour block average firebox temperature on the RTO (ID No. CD-RTO).

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the notification requirements in x. and y. are not met.

**Reporting Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.2281]

- z. The permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June [40 CFR 63.2281(b)(5)]
- aa. The compliance report must contain the information in paragraphs (1) through (8) of this section.

(1) Company name and address.

- (2) 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.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information specified in §63.10(d)(5)(i).
- (5) A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the information specified in paragraphs(5)(i) through (iii) of this section.
  - (i) The date and time when the control device was shut down and restarted.
  - (ii) Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline.
  - (iii) A statement of whether or not the control device maintenance was included in your approved routine control device maintenance exemption developed pursuant to 40 CFR 63.2251. If the control device maintenance was included in your approved routine control device maintenance exemption, then you must report the information in paragraphs(5)(iii)(A) through (C) of this section.
    - (A) The total amount of time that each process unit controlled by the control device operated during the semiannual compliance period and during the previous semiannual compliance period.
    - (B) The amount of time that each process unit controlled by the control device operated while the control device was down for maintenance covered under the routine control device maintenance exemption during the semiannual compliance period and during the previous semiannual compliance period.
    - (C) Based on the information recorded under paragraphs (y)(5)(iii)(A) and (B) of this section for each process unit, compute the annual percent of process unit operating uptime during which the control device was offline for routine maintenance using Equation 1 of this section.

$$RM = \frac{DT_p + DT_c}{PU_p + PU_c} \quad (Eq. 1)$$

Where:

RM = Annual percentage of process unit uptime during which control device is down for routine control device maintenance;

PU<sub>p</sub>= Process unit uptime for the previous semiannual compliance period;

PU<sub>c</sub>= Process unit uptime for the current semiannual compliance period;

DT<sub>p</sub>= Control device downtime claimed under the routine control device maintenance exemption for the previous semiannual compliance period;

DT<sub>c</sub>= Control device downtime claimed under the routine control device maintenance exemption for the current semiannual compliance period.

- (6) The results of any performance tests conducted during the semiannual reporting period.
  - (7) If there are no deviations from any applicable compliance option or operating requirement, a statement that there were no deviations from the compliance options or operating requirements during the reporting period.
  - (8) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
- bb. For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in this

subpart, you must include the information in paragraphs (aa)(1) through (6) and paragraphs (bb)(1) through (11) of this section. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.

- (1) The date and time that each malfunction started and stopped.
- (2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.
- (3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
- (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period.
- (5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
- (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes.
- (7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.
- (8) A brief description of the process units.
- (9) A brief description of the CMS.
- (10) The date of the latest CMS certification or audit.
- (11) A description of any changes in CMS, processes, or controls since the last reporting period.

[40 CFR 63.2271, .2281]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in z. through bb. are not met.

**STATE-ENFORCEABLE ONLY**

**3. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS**

- a. For sources at a facility subject to a MACT or GACT standard, or that may be subject to a MACT or GACT standard based on studies required by Section 112(n)(1) of the Clean Air Act, 42 U.S.C. Section 7412 (n)(1), the owner or operator of the facility shall comply with 15A NCAC 2D .1100 as follows:
  - i. When the owner or operator submits a permit application to comply with the last MACT or GACT, excluding the MACT or GACT for combustion sources, known to apply to the facility, he shall also submit a permit application to comply with 15A NCAC 2D .1100. The facility shall comply with 15A NCAC 2D .1100 by the same deadline that it is required to comply with the last MACT or GACT.
  - ii. If the owner or operator does not have to submit a permit application to comply with the last MACT or GACT, excluding the MACT or GACT for combustion sources, he shall submit a permit application to comply with 15A NCAC 2D .1100 within six months after the promulgation of the last MACT or GACT, excluding the MACT or GACT for combustion sources, known to apply to the facility or by January 1, 1999, whichever is later. The facility shall comply with 15A NCAC 2D .1100 by the same deadline that it is required to comply with the last MACT or GACT.

- iii. If the owner or operator submitted a permit application for the last MACT or GACT, excluding the MACT or GACT for combustion sources, known to apply to the facility before July 1, 1998, he shall submit a permit application to comply with 15A NCAC 2D .1100 by January 1, 1999. The facility shall comply with 15A NCAC 2D .1100 within three years from the date that the permit is issued.

### C. Facility-wide affected sources

#### **STATE-ENFORCEABLE ONLY**

#### **1. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS**

Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration (**app no. 6200061.10B**), the following permit limits shall not be exceeded:

<b>Emission Source</b>	<b>Toxic Air Pollutant</b>	<b>Emission Limit (pounds per hour)</b>
Exhaust from RTO (ID No. CD-RTO, EP12) – controls the heating plant (ID No. ES-HP), the continuous press (ID No. ES-BP), and tube dryer (ID No. ES-DRY)	Acrolein	36.0
	Formaldehyde	69.4
	Phenol	448
Exhaust from RTO (ID No. CD-RTO) Bypass stack (EP11)	Acrolein	313.7
	Formaldehyde	580.4
	Phenol	3725.4
Board cooling and stacking area (ID No. ES-F-BC)	Acrolein	5.27E-03
	Formaldehyde	1.00
Dried fiber grader system No. 1 (ID No. ES-21)	Formaldehyde	0.54
Dried fiber grader system No. 2 (ID No. ES-22)	Formaldehyde	0.54
Mat trimmings return air system (ID No. ES-23)	Formaldehyde	1.08
Fine sanderdust pneumatic conveyor (ID No. ES-31)	Formaldehyde	0.101
Coarse sanderdust pneumatic conveyor (ID No. ES-32)	Formaldehyde	0.101
Sawing and cutting pneumatic conveyor (ID No. ES-33)	Formaldehyde	8.16E-03
Press trim saw and dust collection system (ID No. ES-34)	Formaldehyde	8.16E-03
Five resin storage tanks (ID Nos. ES-40a through ES-40e)	Formaldehyde	5.00E-03
Evaporator (ID No ES-EVAP)	Formaldehyde	5.46E-04

#### **Monitoring/Recordkeeping/Reporting**

- a. No monitoring/recordkeeping/reporting is required for compliance with this condition.

## 2.3 Permit Shield for Nonapplicable Requirements

The Permittee is shielded from the following nonapplicable requirements [15A NCAC 2Q .0512(a)(1)(A) and (B)].

A. New Source Performance Standard (NSPS) Subpart Db is not applicable to the heating plant (ID No. ES-HP) because the heating plant is considered a process heater and the primary purpose is to produce a final product. The heating plant (ID No. ES-HP) consists of:

- one wood-fired boiler (ID No. ES-HP-1);
- one sanderdust duct burner system (ID No. ES-HP-2);
- two No. 2 fuel oil-fired auxiliary burners (ID Nos. ES-HP-3 and ES-HP-4);
- one No. 2 fuel oil-fired auxiliary burner (ID No. ES-HP-5),
- two natural gas fired auxiliary burners (ID Nos. ES-HP-6 and ES-HP-7);
- one natural gas fired auxiliary burner (ID No. ES-HP-8);

with associated multicyclone (ID No. CD-01), selective non-catalytic reduction unit (ID No. CD-SNCR), aqueous-assisted fiber removal chamber with or without the appurtenant mesh pad-type mist eliminator (ID No. CD-SCRB), and natural gas/No. 2 fuel oil-fired regenerative thermal oxidizer (ID No. CD-RTO), all in series.

### **SECTION 3 - GENERAL CONDITIONS (version 3.4)**

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

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
  2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
  3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
  4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
  5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
  6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.
- B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]
- The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.
- C. **Severability Clause** [15A NCAC 2Q .0508(i)(2)]
- In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.
- D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]
- Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:
- Supervisor, Stationary Source Compliance  
North Carolina Division of Air Quality  
1641 Mail Service Center

Raleigh, NC 27699-1641

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

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

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

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

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

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

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

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

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

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

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

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

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

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

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or

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

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

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

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

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

#### **Excess Emissions**

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

- estimated rate of emissions;
- ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
- iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

Permit Deviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. the method(s) used for determining the compliance status of the source during the certification period.

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:

- a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
  - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
  - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

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

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

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

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

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

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

- OO. **Third Party Participation and EPA Review** [15A NCAC 2Q .0521, .0522 and .0525(7)]  
For permits modifications subject to 45-day review by the federal Environment Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 2Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

**List of Acronyms**

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAIR</b>	Clean Air Interstate Rule
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>DAQ</b>	Division of Air Quality
<b>DENR</b>	Department of Environment and Natural Resources
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>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>RACT</b>	Reasonably Available Control Technology
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound