



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

Beverly Eaves Purdue  
Governor

B. Keith Overcash, P.E.  
Director

Dee Freeman  
Secretary

MM DD, 2009

Mr. James English  
General Manager  
JELD-WEN, Inc.  
100 Henry McCall Road  
Marion, North Carolina 28752-9468

Dear Mr. English:

SUBJECT: Air Quality Permit No. 06486T16  
Facility ID: 5600169  
JELD-WEN, Inc.  
Marion,  
McDowell County  
Fee Class: Title V

In accordance with the complete Air Quality Permit Application for a major modification received September 17, 2009, we are forwarding herewith Air Quality Permit No. 06486T16 JELD-WEN, Inc., 100 Henry McCall Road, Marion, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

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

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

**Permitting Section**

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

One  
North Carolina  
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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 MM DD, 2009 until January 31, 2014, 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 Joseph Voelker, P.E. at (919) 715-7218.

Sincerely yours,

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

Enclosure

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

ATTACHMENT to cover letter to Air Quality Permit Number 06486T16

**Table of Changes**

**Changes to Existing Air Permit No. 06486T16**

Existing Condition No.	Revised Condition No.	Changes
Cover Letter	Same	<ul style="list-style-type: none"> <li>Updated permit revision numbers, dates, etc. and</li> </ul>
Insignificant Activities list	Same	<ul style="list-style-type: none"> <li>Per current DAQ guidance changed: ATTACHMENT to Permit No. 06486T16 to ATTACHMENT to cover letter to Air Quality Permit Number 06486T16</li> </ul>
Permit Cover page	Same	<ul style="list-style-type: none"> <li>Updated dates, revision numbers, etc.</li> </ul>
Permit page 3	Same	<ul style="list-style-type: none"> <li>The first two introductory paragraphs were removed as they have been deemed redundant and unnecessary</li> </ul>
Equipment list	Same	<ul style="list-style-type: none"> <li>Revised the descriptors for the resin storage tanks ST-R1 and R2 to reflect the change in reformulation of the resin. The descriptors will now read:  <i>Storage tank containing resin (7,400 gallons capacity)</i></li> </ul>
2.1.C.3	Same	<ul style="list-style-type: none"> <li>Revised PM10 emissions rates in the applicable regulations table [2D.0501(e)]</li> </ul>
2.1.G.3.	Same	<ul style="list-style-type: none"> <li>Revised PM10 emissions rate in the applicable regulations table [2D.0501(e)]</li> </ul>
2.1.H	2.1.H.	<ul style="list-style-type: none"> <li>Revised tank descriptors (see equipment list change)</li> <li>Removed reference to 2D.1100. The tanks no longer emit NC TAP (formaldehyde).</li> </ul>
2.2.A.3.	Same	<ul style="list-style-type: none"> <li>The Formaldehyde emissions rates were revised based on the revised modeling</li> <li>Emission rate limitations for phenol and acrolein were added.</li> </ul>
2.2.A.3.a.i.	Same	<ul style="list-style-type: none"> <li>The doorskin throughput for the “no-fiberglass-added” skins for press 1 was revised to those requested in the permit application and used in the 2D.1100 modeling demonstration.</li> </ul>
2.2.A.3.a.ii	Same	<ul style="list-style-type: none"> <li>The exhaust temperature limitation was removed given the large margin of compliance resulting from the use of the “no-added” formaldehyde resin.</li> <li>The limitation was replaced with a press 1 throughput limitation for the “fiberglass-added skins” as requested in the permit application and used in the 2D.1100 modeling demonstration.</li> </ul>
2.2.A.a.iii.	Same	<ul style="list-style-type: none"> <li>The average velocity limitation was removed given the large margin of compliance resulting from the use of the “no-added” formaldehyde resin</li> <li>The limitation was replaced with a press 2 throughput limitation as requested in the permit application and used in the 2D.1100 modeling demonstration.</li> </ul>
2.2.A.3.b.	Same	<ul style="list-style-type: none"> <li>The monitoring requirements associated with exhaust gas temperature and velocity limits were removed as discussed above</li> <li>The recordkeeping requirements for doorskin throughput are now indicated as this condition (b)</li> </ul>
2.2.A.3.c.	2.2.A.3.b.	<ul style="list-style-type: none"> <li>Revision T15 recordkeeping requirements are now indicated as condition b.</li> </ul>
2.2.A.3.d.	2.2.A.3.c.	<ul style="list-style-type: none"> <li>Revision T15 reporting requirements are now indicated as condition c.</li> <li>Added reporting of acrolein and phenol</li> <li>Removed reporting associated with exhaust gas temperature and velocity limits</li> </ul>

Existing Condition No.	Revised Condition No.	Changes
2.2.A.3.e.	2.2.A.3.d.	<ul style="list-style-type: none"> <li>▪ Revision T15 testing requirements are now indicated as condition d.</li> <li>▪ The testing requirement was revised to require testing for the acrolein, formaldehyde and phenol, that are also regulated as “Total HAP” under MACT Subpart DDDD.</li> </ul>
2.2.A.4	Same	<ul style="list-style-type: none"> <li>▪ Removed acrolein and phenol from the TAP TPER list</li> </ul>
2.2.A.5.	Same	<ul style="list-style-type: none"> <li>▪ PM10 emission rates were revised based on the revised modeling</li> <li>▪ Long term emission rates were incorporated into the permit since they are different than the short term rates in some cases. The previous modeling used the short-term maximum rates for the annual PM10 NAAQS modeling as well.</li> </ul>
2.2.A.5.a.ii.	2.2.A.5.a.ii., iii, iv	<ul style="list-style-type: none"> <li>▪ The production limitations for the presses were revised based on rates requested in this application</li> </ul>
2.2.A.5.a.iii.	2.2.A.5.a.v.	<ul style="list-style-type: none"> <li>▪ No change</li> </ul>
2.3.A.1	Same	<ul style="list-style-type: none"> <li>▪ Revised the language to allow the permit application required to be submitted with the Initial MACT Compliance Plan that will be required in the Global Consent Decree.</li> </ul>
General Conditions	Same	<p>Revised to current revision 3.0. The only change was in condition D as follows:</p> <p><i>All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).</i></p>

**ATTACHMENT to cover letter to Air Quality Permit Number 06486T16**

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

<b>Source ID No.</b>	<b>Source Description</b>
I-RMH	Raw material handling consisting of one wood chip receiving dump-pit and associated pneumatic raw material handling system and two silos S5 and S6. Silos are controlled by bagfilter ID No. CD-BH1W.
I-BFS1	170 boiler fuel silo
I-BFS2	185 ton boiler fuel silo
I-ST-W	11,700 gallon wax storage tank
I-ST-P	11,700 gallon primer storage tank
I-SP	111 gallons per year spray paint for marking door skins

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".

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
06486T16	06486T15	MM DD, 2009	January 31, 2014

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

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

**Permittee:** **JELD-WEN, Inc.**  
**dba JELD-WEN Fiber of North Carolina**

**Facility ID:** **5600169**

**Facility Site Location:** **100 Henry McCall Road**  
**City, County, State, Zip:** **Marion, McDowell County, North Carolina 28752-9468**

**Mailing Address:** **100 Henry McCall Road**  
**City, State, Zip:** **Marion, McDowell County, North Carolina 28752-9468**

**Application Number:** **5600169.09C**  
**Complete Application Date:** **September 17, 2009**  
**Primary SIC Code:** **2493**  
**Division of Air Quality,** **Asheville Regional Office**  
**Regional Office Address:** **2090 Hwy 70**  
**Swannanoa, North Carolina 28778**

Permit issued this the DD<sup>nd</sup> day of ,MM, 2009

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

## **Table Of Contents**

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

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

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

2.3- Schedule of Compliance

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-B1	wood-fired boiler (43.6 million Btu per hour heat input)	CD-MC1	multicyclone (70 two-inch diameter tubes)
ES-B2	natural gas-fired boiler (33.48 million Btu per hour heat input)	N/A	N/A
ES-B3	natural gas-fired boiler (27.6 million Btu per hour heat input)	N/A	N/A
<b>Fiber line drying operations consisting of:</b>			
ES-FL1D MACT Subpart DDDD	Fiber line 1 fiber drying operations	CD-D1 BHD1 BHD2 BHD3	cyclone (132 inches in diameter) venting to three parallel bagfilters (6,451 square feet of filter area)
ES-FL2D MACT Subpart DDDD	Fiber line 2 fiber drying operations	CD-D2 BHD1 BHD2 BHD3	cyclone (132 inches in diameter) venting to three parallel bagfilters (6,451 square feet of filter area)
<b>Fiber Line fiber collection (FL1)/recycling operations consisting of:</b>			
ES-F1 MACT Subpart DDDD	Forming and shave-off operations	CD-BHF1	bag filter (3,196 square feet of filter area)
ES-1 MACT Subpart DDDD	Fiber collection/recycling operations	CD-FR1 CD-PC1 CD-BH1	cyclone (Fiber Recycle Cyclone, 60 inches in diameter) venting to: cyclone (180 inches in diameter) venting to: bagfilter (4,651 square feet of filter area)
<b>Fiber Line 2 Collection/Recycling Operations</b>			
ES-F2 MACT Subpart DDDD	Forming and shave-off operations	CD-BHF2	bagfilter (3,196 square feet of filter area)
ES-2 MACT Subpart DDDD	Fiber collection/recycling operations	CD-FR2 CD-PC2 CD-BH2	cyclone (60 inches in diameter) venting to: cyclone (180 inches in diameter) venting to: bagfilter (4,651 square feet of filter area)
<b>Presses</b>			
ES-P1 MACT Subpart DDDD	Fiber line 1 hot press	N/A	N/A
ES-P2 MACT Subpart DDDD	Fiber line 2 hot press	N/A	N/A
<b>Primer Coating Operation</b>			
ES-PB1.1	dry filter type spray booth	N/A	N/A

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
<b>MACT Subpart QQQQ</b>			
ES-PB1.2 <b>MACT Subpart QQQQ</b>	steam-heated curing oven	N/A	N/A
<b>Miscellaneous Sources</b>			
ES-1W <b>MACT Subpart DDDD</b>	Stacked skins sizer trim process	CD-BH1W	bagfilter (4,651 square feet of filter area)
ES-S3 <b>MACT Subpart DDDD</b>	material silos 530 tons total capacity		
ES-S4 <b>MACT Subpart DDDD</b>			
ST-R1 <b>MACT Subpart DDDD</b>	Storage tank containing resin (7,400 gallons capacity)	N/A	N/A
ST-R2 <b>MACT Subpart DDDD</b>	Storage tank containing resin (7,400 gallons capacity)	N/A	N/A
ES-DS <b>MACT Subpart DDDD</b>	Door skin inventory	N/A	N/A

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

#### A. Wood-fired boiler (ID No. B1) with multicyclone (ID No. MC1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.50 pounds per million Btu heat input	15A NCAC 2D .0504
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
PM <sub>10</sub>	See Section 2.2 A.5.	15A NCAC 2D .0501(e)
Formaldehyde, Acrolein, Phenol	See Section 2.2	15A NCAC 2D .1100

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

- a. Emissions of particulate matter from the combustion of wood that are discharged from this source into the atmosphere shall not exceed **0.50 pounds per million Btu heat input**. [15A NCAC 2D .0504]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.
- c. The Permittee shall perform testing with 18 months of permit issuance in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

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

- d. Particulate matter emissions from the boiler shall be controlled by the multicyclone. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:
- i. a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
  - ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclone's structural integrity.

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

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

- e. 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. a report of any maintenance performed on the multicyclone; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

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

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

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone.
- 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.

**2. 15A NCAC 2D .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 2D .0516]

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

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

**Monitoring/Recordkeeping** [15A NCAC 2Q .0508(f) and 15A NCAC 2D .2601]

- c. No monitoring/recordkeeping is required for sulfur dioxide emissions from wood combustion for these sources.

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 3. a. above (**ID No. B-1**), 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 for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve 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. Natural gas-fired boiler (ID No. ES-B2)  
Natural gas-fired boiler (ID No. ES-B3)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.44 pounds per million Btu heat input (ID No. ES-B2) 0.38 pounds per million Btu heat input (ID No. ES-B3)	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu (ID Nos. ES-B2 and ES-B3)	15A NCAC 2D .0516
Visible emissions	20 percent opacity (ID Nos. ES-B2 and ES-B3)	15A NCAC 2D .0521

Regulated Pollutant	Limits/Standards	Applicable Regulation
N/A	Recordkeeping only; monthly fuel records (ID No. ES-B2)	15A NCAC 2D .0524 <b>40 CFR Part 60 Subpart Dc</b>
PM <sub>10</sub>	See Section 2.2.(A)(5) (ID Nos. ES-B2 and ES-B3)	15A NCAC 2D. 0501(e)

1. **15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS**
  - a. Emissions of particulate matter from the combustion of natural gas, that are discharged from this source (ID No. B2) into the atmosphere shall not exceed **0.44 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]
  - b. Emissions of particulate matter from the combustion of natural gas, that are discharged from this source (ID No. B3) into the atmosphere shall not exceed 0.38 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

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

  - c. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 1. a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

  - d. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in these sources.
  
2. **15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**
  - a. Emissions of sulfur dioxide from these sources (ID Nos. ES-B2 and ES-B3) shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

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

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

**Monitoring/Recordkeeping** [15A NCAC 2Q .0508(f) and 15A NCAC 2D .2601]

  - c. No monitoring/recordkeeping is required for sulfur dioxide emissions from natural gas combustion for these sources.
  
3. **15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS**
  - a. Visible emissions from these natural gas-fired boilers (ID Nos. ES-B2 and ES-B3) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

  - b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 3. a. above (ID Nos. B2 and B3), the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

  - c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these sources.
  
4. **15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc**
  - a. For the boiler (ID No. ES-B2), the Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management

Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

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

- b. The Permittee shall keep monthly records of the amount of natural gas burned in the boiler.

**C. Fiber Line Drying Operations Consisting of:**

**Fiber Line 1 fiber drying operations (ID No. ES-FL1D) with cyclone (ID No. CD-D1) and three bagfilters (ID Nos. BHD1, BHD2 and BHD3)**

**Fiber Line 2 fiber drying operations (ID No. ES-FL2D) with cyclone (ID No. CD-D2) and three bagfilters (ID Nos. BHD1, BHD2 and BHD3)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Section 2.2.(A)(1); <b>State-enforceable only</b>	15A NCAC 2D .0958
Odorous emissions	See Section 2.2.(A)(2); <b>State-enforceable only</b>	15A NCAC 2D .1806
Formaldehyde, Acrolein, Phenol	See Section 2.2.(A)(3); <b>State-enforceable only</b>	15A NCAC 2D .1100
Xylene Ammonia Ethylene glycol Monoethyl ether Acetaldehyde Methyl Ethyl Ketone Methyl Isobutyl Ketone Toluene	See Section 2.2.(A)(3); <b>State-enforceable only</b>	15A NCAC 2Q .0711
PM <sub>10</sub>	See Section 2.2 (A)(5)	15A NCAC 2Q .0501(e)
Particulate Matter, Visible Emissions, PM <sub>10</sub>	Compliance Assurance Monitoring	15A NCAC 2D. 0614 (40 CFR 64)

**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.

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above any applicable emission limits, the Permittee shall be deemed in noncompliance.

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

- c. Particulate matter emissions from the fiber line drying operations (ID Nos. ES-FL1D and ES-FL2D) shall be controlled by cyclones (ID Nos. CD-D1 and CD-D2, respectively) and controlled by three similar bagfilters (ID Nos. BHD1, BHD2 and BHD3) installed in series on the cyclone. 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 bagfilters noting the structural integrity; and

- ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

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

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

- d. 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)]

- e. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked 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 the Fiber Line 1 fiber drying operations and Fiber Line 2 fiber drying operations (ID Nos. ES-FL1D, and ES-FL2D) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 2. a. (ID Nos. ES-FL1D and ES-FL2D), 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 for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve minutes is below the limit given in Section 2.1C.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.

**3. 15A NCAC 2D .0614 COMPLIANCE ASSURANCE MONITORING**

Pursuant to 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the conditions below for the following Pollutant Specific Emission Unit(s):

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-FL1D	Fiber line 1 fiber drying operations	CD-D1 BHD1, BHD2, BHD3	cyclone (132 inches in diameter) venting to three parallel bagfilters (6,451 square feet of filter area)
ES-FL2D	Fiber line 2 fiber drying operations	CD-D2 BHD1, BHD2, BHD3	cyclone (132 inches in diameter) venting to three parallel bagfilters (6,451 square feet of filter area)

**Emission Limitations/Standards**

- a. The following table presents the regulated pollutants and the associated emission limitations/standards

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity when averaged over a six-minute period	15A NCAC 2D .0521
PM <sub>10</sub>	ER-BHD1 1.10 lb/hour	15A NCAC 2D. 0501(e)
	ER-BHD2 1.32 lb/hour	
	ER-BHD3 1.37 lb/hour	

**Monitoring Approach** [15A NCAC 2Q .0508(f), 40 CFR 64.6]

- b. The key elements of the monitoring approach for particulate matter, PM10 and visible emissions, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Monitoring Elements	Indicator No. 1	Indicator No. 2
Measurement Approach [64.6(c)(1)(i), (ii)]	Visible emissions from each bagfilter outlet will be monitored <u>daily</u> using reference method 22-like procedures.	The differential pressure across each bagfilter will be monitored <u>weekly</u> via a differential pressure gauge.
Indicator Range [64.6(c)(2)]	An excursion is defined as the presence of visible emissions. Excursions trigger an inspection and corrective action.	An excursion is defined as any differential pressure gauge reading less than 0.25 or greater than 1.5 inches w.g.. Excursions trigger an inspection and corrective action.
QIP threshold [64.8]	The QIP threshold is six excursions in a six-month reporting period.	The QIP threshold is six excursions in a six-month reporting period.

Monitoring Elements	Indicator No. 1	Indicator No. 2
Data Representativeness [64.6(c)(1)(iii), 64.3(b)(1)]	Measurements are being made at the emission points (bagfilter outlet).	The differential pressure is measured on either side of the bagfilter media.
Verification of Operational Status [64.3(b)(2)]	Monitoring shall be required upon issuance of permit No. 06486T14..	Monitoring shall be required upon issuance of permit No. 06486T14..
QA/QC Practices and Criteria [64.3(b)(3)]	The observer will be: familiar with Method 22 and the follow Method 22-like procedures; and will be certified to Method 9 procedures on a semi-annual basis.	The differential pressure gauges (gauges) will be maintained monitored for functionality during each reading. Gauges with obvious signs of condensation or seal failure will be repaired or replaced. If, during a reading, a gauge fails to provide a discernable reading, the attached airlines will be cleared with compressed air. The unit will be replaced if, after clearing, the gauge still fails to provide a discernable reading. Spare gauges will be maintained on site to expedite repairs.
Monitoring frequency [64.3(b)(4)]	One six-minute Method 22-like observation per bagfilter outlet shall be performed daily.	One instantaneous differential pressure reading per bagfilter shall be performed weekly.
Data collection procedure [64.3(b)(4)]	The results of the monitoring action will be recorded, including the date and time.	The results of the monitoring action will be recorded, including the date and time.

**Recordkeeping Requirements** [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- c. The owner or operator shall maintain records of the following:
  - i. Date and time and results of all monitoring activities;
  - ii. Information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - iii. Maintenance records of the differential pressure gauge; and
  - iv. Written QIP required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan

**Reporting Requirements** [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- d. The Permittee shall submit a summary report of all monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations for the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
  - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor (pressure gauge) downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

**D. Fiber Line No. 1 collection/ recycling operations consisting of:**

Forming and shave-off operations (ID No. ES-F1) with bagfilter (ID No. BHF1)  
Fiber Line fiber collection/ recycling operations (ID No. ES-1) with cyclone (ID No. CD-FR1) and cyclone (ID No. PC1) vented to bagfilter (ID No. BH1) - *this bagfilter also controls fibers collected by the bagfilter (ID No. BHF1) AND the airstream which transfers woodwaste to the Dry Fuel Silo*

**Fiber Line No. 2 collection/ recycling operations consisting of:**

Forming and shave-off operations (ID No. ES-F2) controlled by bagfilter (ID No. BHF2)  
Fiber Line fiber collection/recycling operations (ID No. ES-2) with cyclone (ID No. CD-FR2) and cyclone (ID No. CD-PC2) vented to bagfilter (ID No. BH2) - *this bagfilter also controls fibers collected by the bagfilter (ID No. BHF2) AND the airstream which transfers woodwaste to the Dry Fuel Silo*

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
PM <sub>10</sub>	See Section 2.2 (A)(5)	15A NCAC 2Q .0501(e)

**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 forming and shave-off operations from fiber lines 1 and 2 shall each be controlled by a bagfilter (3,196 square feet of filter area each, ID Nos. BHF1 and BHF2, respectively). Particulate matter emissions from the fiber lines 1 and 2 collection and recycle systems (ID Nos. 1 and 2) shall be controlled by two 60" diameter fiber recycle cyclones (ID Nos. FR1 and FR2), two 180" diameter cyclones (ID Nos. PC1 and PC2), two bagfilters (4,156 square feet of filter area each, ID Nos. BH1 and BH2). 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 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 this source (ID Nos. ES-1, ES-2, ES-F1, and ES-F2) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D. 2. a. (ID Nos. 1, 2, F1, and F2), 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 for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve minutes is below the limit given in Section 2.1 D.2. a. above.

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

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

- 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.

**E. Fiber Line Presses consisting of:**

- Fiber Line 1 Hot Press (ID No. ES-P1)
- Fiber Line 2 Hot Press (ID No. ES-P2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Section 2.2.(A)(1)	15A NCAC 2D .0958

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odorous emissions	See Section 2.2.(A)(2); State-enforceable only	15A NCAC 2D .1806
Formaldehyde, Acrolein, Phenol	See Section 2.2.(A)(3); State-enforceable only	15A NCAC 2D .1100
Xylene Ammonia Ethylene glycol Monoethyl ether Acetaldehyde Methyl Ethyl Ketone Methyl Isobutyl Ketone Toluene	See Section 2.2.(A)(4); State-enforceable only	15A NCAC 2Q .0711
PM <sub>10</sub>	See Section 2.2.(A)(5)	15A NCAC 2D. 0501(e)

**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.
- b. No monitoring/recordkeeping/reporting is required for particulate emissions from the hot presses (ID Nos. P1 and P2).

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

- a. Visible emissions from these presses (ID Nos. P1 and P2) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 E. 2. a. (ID Nos. P1 and P2) 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 for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve minutes is below the limit given in Section 2.1 E.2. a. above.

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

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

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

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

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

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

**F. primer coating operation consisting of dry filter type spray booth (ID No. ES-PB1.1) and steam heated curing oven (ID No. ES-PB1.2)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Section 2.2.(A)(1)	15A NCAC 2D .0958
Odororous emissions	See Section 2.2.(A)(2); State-enforceable only	15A NCAC 2D .1806
Formaldehyde	See Section 2.2.(A)(3); State-enforceable only	15A NCAC 2D .1100
Xylene Ammonia Ethylene glycol monoethyl Ether Acetaldehyde Methyl Ethyl Ketone Methyl Isobutyl Ketone Toluene	See Section 2.2.(A)(4); State-enforceable only	15A NCAC 2Q .0711
PM <sub>10</sub>	See Section 2.2.(A)(5)	15A NCAC 2D. 0501(e)
Hazardous air pollutants (HAPs)	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products	15A NCAC 2D .1111 40 CFR Part 63, Subpart QQQQ

**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 primer coating operation (ID No. PB-1) shall be controlled by adequate ductwork and properly designed collectors. To assure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:
  - i. weekly inspection of the spray booths' filters noting the condition; and
  - ii. annual (for each 12 month period following the initial inspection) inspection of the associated ductwork noting structural integrity.

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

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

- c. The results of inspection and maintenance for the spray booths shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection; and
  - iii. the results of maintenance performed on any filters.
- The Permittee shall be deemed in noncompliance with 15A NCAC 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 filters or ductwork within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 F. 2. a. (ID No. PB-1) above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, **once a week** the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either
- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve minutes is below the limit given in Section 2.1 F.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.

**3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

**Applicability** [40 CFR 63.4681]

- a. For the emission sources subject to “**MACT Subpart QQQQ**” 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 QQQQ National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

**Definitions and Nomenclature** [40 CFR 63.4781]

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.4781 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.4710]

- 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 4 to 40 CFR Part 63, Subpart QQQQ.

**Testing** [15A NCAC 02D .2601]

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

**Emission Limitations**[15A NCAC 02Q .0508(b), 40 CFR 63.4690 and .4691]

- e. The organic HAP content of each coating used in the Subpart QQQQ affected sources shall not exceed 0.06 lbs HAP/gal solids.  
f. The thinners and cleaning materials used in the Subpart QQQQ affected sources shall contain no organic HAP.

**Monitoring and Continuous Compliance Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.4742]

- g. The Permittee shall meet the emission limitations of conditions e. and f. at all times for each compliance period.  
h. Organic HAP content (lbs HAP/gal solids) shall be determined using Equation 2 in 40 CFR 63.4741.  
i. HAP content of thinners and cleaning materials shall be determined according to 40 CFR 63.4741(a).  
j. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in 40 CFR 63.4740 is the end of a compliance period consisting of that month and the preceding 11 months.

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

**Recordkeeping** [15A NCAC 2Q .0508(f), 40 CFR 63.4730]

- k. The following records must be kept. Failure to collect and keep these records is a deviation from the applicable standard.  
i. A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.  
ii. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner, and cleaning material and the volume fraction of coating solids for each coating. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier.  
iii. For each compliance period, the following records:

1. A record of the coating operations at which you used each compliance option and the time periods (beginning and ending dates and times) you used each option.
2. For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.4741.
- iv. A record of the name and volume of each coating, thinner, and cleaning material used during each compliance period.
- v. A record of the mass fraction of organic HAP for each coating, thinner, and cleaning material used during each compliance period.
- vi. A record of the volume fraction of coating solids for each coating used during each compliance period.
- vii. A record of the density for each coating used during each compliance period.
- viii. You must keep records of the date, time, and duration of each deviation.
- l. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- m. You 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). You may keep the records off-site for the remaining 3 years.

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

**Reporting** [15A NCAC 2Q .0508(f), 40CFR 63.4720]

- n. The Permittee shall submit a semiannual compliance report (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.
- o. The semiannual compliance report must contain the following information:
  - i. Company name and address.
  - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - iii. Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
  - iv. Identification of the compliance option or options specified in 40 CFR 63.4691 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates you used each option.
- p. If there were no deviations from the emission limitations in 40 CFR 63.4690 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.
- q. If there was a deviation from the applicable emission limit in 40 CFR 63.4690, the semiannual compliance report must contain the information in paragraphs (i) through (iv).
  - i. Identification of each coating used that deviated from the emission limit, each thinner and cleaning material used that contained organic HAP, and the dates and time periods each was used.
  - ii. The calculation of the organic HAP content (using Equation 2 of 40 CFR 63.4741) for each coating identified in paragraph (i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
  - iii. The determination of mass fraction of organic HAP for each coating, thinner, and cleaning material identified in paragraph (i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).
  - iv. A statement of the cause of each deviation.

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

**G. stacked skins sizer trim process (ID No. ES-1W)  
 two raw material silos (ID Nos. ES-S3 and -ES-S4) with bagfilter (ID No. BH1W)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
PM <sub>10</sub>	See Multiple Emissions Section 2.2.(A)(5)	15A NCAC 2D. 0501(e)
Particulate Matter, Visible Emissions, PM <sub>10</sub>	Compliance Assurance Monitoring <b>(stacked skins sizer trim process (ID No. ES-1W) only)</b>	15A NCAC 2D. 0614 (40 CFR 64)
Formaldehyde	See Section 2.2.(A)(3); State-enforceable only	15A NCAC 2D .1100

**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 stacked skins sizer process (ES-1W) and the raw material silos (ES-S3 and ES-S4) shall be controlled by a bagfilter (ID No. BH1W). 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 and bagfilters noting the structural integrity; and
  - ii. annual (for each 12 month period following the initial inspection) (for each 12 month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

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

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

- c. The results of inspection and maintenance for the 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 this stacked skins sizer process (ES-1W) and the raw material silos (ES-S3 and ES-S4) shall not be more than **20 percent opacity** each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

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

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

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

- c. To assure compliance, **once a day**, the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for twelve minutes is below the limit given in Section 2.1 G.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.

**3. 15A NCAC 2D .0614 COMPLIANCE ASSURANCE MONITORING**

Pursuant to 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the conditions below for the following Pollutant Specific Emission Unit(s):

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-1W	Stacked skins sizer trim process	CD-BH1W	bagfilter (4,651 square feet of filter area)

**Emission Limitations/Standards**

- a. The following table presents the regulated pollutants and the associated emission limitations/standards

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity when averaged over a six-minute period	15A NCAC 2D .0521
PM <sub>10</sub>	0.413 lb/hour	15A NCAC 2D. 0501(e)

**Monitoring Approach** [15A NCAC 2Q .0508(f), 40 CFR 64.6]

- b. The key elements of the monitoring approach for particulate matter, PM10 and visible emissions, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

<b>Monitoring Elements</b>	<b>Indicator No. 1</b>	<b>Indicator No. 2</b>
Measurement Approach [64.6(c)(1)(i), (ii)]	Visible emissions from the bagfilter outlet will be monitored <u>daily</u> using reference method 22-like procedures.	The differential pressure across the bagfilter will be monitored <u>weekly</u> via a differential pressure gauge.
Indicator Range [64.6(c)(2)]	An excursion is defined as the presence of visible emissions. Excursions trigger an inspection and corrective action.	An excursion is defined as any differential pressure gauge reading less than 0.25 or greater than 2.0 inches w.g.. Excursions trigger an inspection and corrective action.
QIP threshold [64.8]	The QIP threshold is six excursions in a six-month reporting period.	The QIP threshold is six excursions in a six-month reporting period.
Data Representativeness [64.6(c)(1)(iii), 64.3(b)(1)]	Measurements are being made at the emission point (bagfilter outlet).	The differential pressure is measured on either side of the bagfilter media.
Verification of Operational Status [64.3(b)(2)]	Monitoring shall be required upon issuance of permit No. 06486T14.	Monitoring shall be required upon issuance of permit No. 06486T14.
QA/QC Practices and Criteria [64.3(b)(3)]	The observer will be: familiar with Method 22 and the follow Method 22-like procedures; and will be certified to Method 9 procedures on a semi-annual basis.	The differential pressure gauges (gauges) will be maintained monitored for functionality during each reading. Gauges with obvious signs of condensation or seal failure will be repaired or replaced. If, during a reading, a gauge fails to provide a discernable reading, the attached airlines will be cleared with compressed air. The unit will be replaced if, after clearing, the gauge still fails to provide a discernable reading. Spare gauges will be maintained on site to expedite repairs.
Monitoring frequency [64.3(b)(4)]	One six-minute Method 22-like observation shall be performed daily.	One instantaneous differential pressure reading shall be performed weekly.
Data collection procedure [64.3(b)(4)]	The results of the monitoring action will be recorded, including the date and time.	The results of the monitoring action will be recorded, including the date and time.

**Recordkeeping Requirements** [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- c. The owner or operator shall maintain records of the following:
  - i. Date and time and results of all monitoring activities
  - ii. Information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - iii. Maintenance records of the differential pressure gauge; and
  - iv. Written QIP required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan

**Reporting Requirements** [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- d. The Permittee shall submit a summary report of all monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations for the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
  - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor (pressure gauge) downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

- H. **Storage tank containing resin (7,400 gallons capacity) (ID No. ST-R1)**  
**Storage tank containing resin (7,400 gallons capacity) (ID No. ST-R2)**  
**Doorskin inventory (ID No. ES-DS)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Volatile organic compounds	See Section 2.2.(A)(1)	15A NCAC 2D .0958
Odorous emissions	See Section 2.2.(A)(2); State-enforceable only	15A NCAC 2D .1806

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

- A. **Facility-wide affected sources**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Odors	Odorous emissions must be controlled; State enforceable only	15A NCAC 2D .1806
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Toxic air pollutants	Toxic air pollutant emissions shall not exceed the levels listed in 2Q .0711 unless ambient standards are not exceeded; State-enforceable only	15A NCAC 2Q .0711
	Toxic air pollutant emissions shall not exceed their modeled acceptable ambient levels; State -enforceable only	15A NCAC 2D .1100
PM <sub>10</sub>	15A NCAC 2D. 0501(e) : COMPLIANCE WITH NATIONAL AMBIENT AIR QUALITY STANDARDS	15A NCAC 2D. 0501(e)
Hazardous air pollutants (HAPs)	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 2D .1111 40 CFR Part 63, Subpart DDDD

**STATE-ENFORCEABLE ONLY**

1. **15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**
  - a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility’s boundary.
  - b. If the Director determines that a source or facility is emitting an objectionable odor, by the procedures described below, the Permittee shall:
    - i. within 180 days of receipt of written notification from the Director of the requirement to implement maximum feasible controls, complete the determination process outlined in 15A NCAC 2D .1807 and submit to the Director a completed maximum feasible control determination process, a permit application for maximum feasible controls and a compliance schedule;
    - ii. within 18 months of receipt of written notification from the Director of the requirement to implement maximum feasible controls, have installed and begun operating maximum feasible controls.
  - c. The Director may require the Permittee to implement maximum feasible controls per 15A NCAC 2D .1806(g) if:
    - i. a member of the Division staff determines by field investigation that an objectionable odor is present by taking into account nature, intensity, pervasiveness, duration, and source of the odor and other pertinent factors;
    - ii. the source or facility emits known odor causing compounds such as ammonia, total volatile organics, hydrogen sulfide, or other sulfur compounds at levels that cause objectionable odors beyond the property line of that source or facility; or
    - iii. the Division receives epidemiological studies associating health problems with odors from the source or facility or evidence of documented health problems associated with odors from the source or facility provided by the State Health Director.

**STATE-ENFORCEABLE ONLY**

2. **15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS**
  - a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
    - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
    - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
    - iii. store wipe rags containing volatile organic compounds in closed containers,

- iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
  - v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
  - vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
- i. flush parts in the freeboard area,
  - ii. take precautions to reduce the pooling of solvent on and in the parts,
  - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
  - iv. not fill cleaning machines above the fill line,
  - v. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

**Monitoring**

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

**Recordkeeping**

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

**Reporting**

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

**STATE-ENFORCEABLE ONLY**

3. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT** - Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Emission Source ID No.	Emission Source description	Emission release point, ID Nos.	Emission release point description	Emission limits, pounds per hour		
				Formaldehyde	Acrolein	Phenol
B1	Wood-fired boiler	ERP-MC1	Multi-cyclone stack	0.192	0.174	2.22E-03
ES-FL1D	Fiber line 1 fiber drying operations	ER-BHD1, BHD2 and BHD3	three bagfilter stacks	0.183, per release point	0.0718, per release point	0.223, per release point
ES-FL2D	Fiber line 2 fiber drying operations					
ES-F1	Fiber line 1 forming and shave-off operations	ERP-BHF1	bagfilter stack	2.23E-02	NA	NA

Emission Source ID No.	Emission Source description	Emission release point, ID Nos.	Emission release point description	Emission limits, pounds per hour		
				Formaldehyde	Acrolein	Phenol
ES-1	Fiber line 1 collection/recycling operations	ERP-BH1	bagfilter stack	1.23E-02	NA	NA
ES-F2	Fiber line 2 forming and shave-off operations	ERP-BHF2	bagfilter stack	1.70E-02	NA	NA
ES-2	Fiber line 2 collection/recycling operations	ERP-BH2	bagfilter stack	9.35E-03	NA	NA
ES-P1	Fiber line 1 hot press	PV-1	press vent 1	0.293	0.293	0.77
ES-P2	Fiber line 2 hot press	PV-2	press vent 2	0.12	0.117	0.36
ES-1W	Stacked skins sizer trim process	ERP-BH1W	bagfilter stack	1.31E-02	NA	NA
DS	Doorskin inventory	ERP-DS	doorskin fugitive	9.30E-02	NA	NA

- a. To ensure compliance with the above limits, the following restrictions shall apply to the hot presses (**ID Nos. ES-P1 and ES-P2**):
- i. the door skin throughput for press 1 (**ID No. ES-P1**) shall be limited to 20,727 ft<sup>2</sup> – 1/8” basis per hour for no-fiberglass-added products;
  - ii. the door skin throughput for press 1 (**ID No. ES-P1**) shall be limited to 18,095 ft<sup>2</sup> – 1/8” basis per hour for fiberglass-added products; and
  - iii. the door skin throughput for press 2 (**ID No. ES-P2**) shall be limited to 15,777 ft<sup>2</sup> – 1/8” basis per hour. Fiberglass-added products are not permitted in press 2.

**Monitoring and Recordkeeping** [15A NCAC 2D .0605]

- b. 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 for each hot press (**ID Nos. ES-P1 and ES-P2**):
- i. for each hot press (**ID Nos. ES-P1 and ES-P2**), the door skin throughput per hour as calculated by the following equation:

$$DSTP = \frac{N_{PressLoads,i} * A_{PressLoad,i}}{H_i}$$

where:

- DSTP = door skin throughput per hour, ft<sup>2</sup>/hour  
N<sub>PressLoads,i</sub> = number of press loads per shift, i  
A<sub>PressLoad,i</sub> = maximum area of door skins pressed per press load in shift, i, ft<sup>2</sup>  
H<sub>i</sub> = number of hours of press operation per shift, i, hours

**Reporting** [15A NCAC 2D.0605]

- c. Within 30 days after each calendar year quarter the Permittee shall submit to the Regional Supervisor, DAQ a summary report of the monitoring and recordkeeping requirements including the following:
- i. a statement whether the emissions limits were exceeded for formaldehyde, acrolein or phenol; and
  - ii. a statement whether any of the restrictions in 2.2.A.3.a.(i),(ii), (iii) were exceeded.
- All instances of deviations from the requirements of this permit must be clearly identified.

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

- d. The Permittee shall use the results of the source testing required under the pending Consent Decree referenced in Section 2.3 of this permit to demonstrate compliance with the formaldehyde, acrolein, and phenol emission rates for the Fiber line 1 and 2 hot presses (**ID Nos. ES-P1 and ES-P2**) and the Fiber line 1

and 2 fiber drying operations (**ID Nos. ES-FL1D and ES-FL2D**). The testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above any applicable emission limits, the Permittee shall be deemed in noncompliance with 2D .1100.

**STATE-ENFORCEABLE ONLY**

**4. 15A NCAC 2Q .0711: “PERMIT REQUIREMENTS FOR TOXIC AIR POLLUTANTS”**

a. Regulatory Requirements

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

- i. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
- ii. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D.1100 "Control of Toxic Air Pollutants".

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:

TPERs Limitations				
Pollutant (CAS Number)	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
xylene (1330-20-7)		57		
ammonia (7664-41-7)				0.68
ethylene glycol monoethyl ether (110-80-5)		2.5	0.48	
Acetaldehyde (75-07-0)				6.8
Methyl ethyl ketone (78-93-3)				
Methyl isobutyl ketone (108-10-1)		52		7.6
Toluene (108-88-3)		98		14.4

**5. COMPLIANCE WITH NATIONAL AMBIENT AIR QUALITY STANDARDS**

Pursuant to 15A NCAC 2D. 0501(e), the emissions of PM<sub>10</sub> shall not exceed the emission rates as indicated in the table below:

Emission source ID No.	Source description	Emission release point, ID No(s).	Emission release point description	PM <sub>10</sub> emission limit, pounds per hour	PM <sub>10</sub> emission limit, pounds per hour, annual basis
B1	Wood-fired boiler	ERP-MC1	multicyclone stack	8.33	8.33
B2	Natural gas-fired boiler	B2	boiler stack	0.250	0.264
ES-FL1D ES-FL2D	Fiber line 1 fiber drying operations Fiber line 2 fiber drying operations	ER-BHD1	bagfilter stack	1.10	1.10
		ER-BHD2	bagfilter stack	1.32	1.32
		ER-BHD3	bagfilter stack	1.37	1.37
ES-F1	Fiber line 1 forming and shave-off operations	ERP-BHF1	bagfilter stack	6.84E-03	6.85E-03
ES-1	Fiber line 1 collection/recycling operations	ERP-BH1	bagfilter stack	4.4E-04	4.4E-04

Emission source ID No.	Source description	Emission release point, ID No(s).	Emission release point description	PM <sub>10</sub> emission limit, pounds per hour	PM <sub>10</sub> emission limit, pounds per hour, annual basis
ES-F2	Fiber line 2 forming and shave-off operations	ERP-BHF2	bagfilter stack	5.21E-03	5.21E-03
ES-2	Fiber line 2 collection/recycling operations	ERP-BH2	bagfilter stack	0.118	1.04E-2
ES-P1	Fiber line 1 hot press	PV-1	press vent 1	2.87	2.87
ES-P2	Fiber line 2 hot press	PV-2	press vent 2	2.19	2.19
ES-1W	Stacked skins sizer trim process	ERP-BH1W	bagfilter stack	0.41	0.39
ES-PB1.1	Paint booth	PB1	stack	2.02	1.26
I-RMH	Truck dump	RMH	fugitive	0.240	.053

- a. To ensure compliance with the above limits, the following restrictions shall apply:
  - i. Pursuant to 15A NCAC 2D .0501(e) and in accordance with an approved modeling protocol the facility shall always be in compliance with PM10 standards;
  - ii. the door skin throughput for press 1 (**ID No. ES-P1**) shall be limited to 20,727 ft<sup>2</sup> – 1/8” basis per hour for no-fiberglass-added products;
  - iii. the door skin throughput for press 1 (**ID No. ES-P1**) shall be limited to 18,095 ft<sup>2</sup> – 1/8” basis per hour for fiberglass-added products;
  - iv. the door skin throughput for press 2 (**ID No. ES-P2**) shall be limited to 15,777 ft<sup>2</sup> – 1/8” basis per hour (fiberglass-added products are not permitted in press 2); and
  - v. the boilers, **ID Nos. ES-B3 and ES-B1**, shall never be operated simultaneously.

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

- b. A logbook (written or electronic format) shall be kept on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and times of operation boiler **ID No. ES-B3**;
  - ii. the operational status of boiler **ID No. ES-B1** during operation of boiler **ID No. ES-B3**;
  - iii. for each hot press (**ID Nos. ES-P1 and ES-P2**), the door skin throughput per hour as calculated by the following equation:

$$DSTP = \frac{N_{PressLoads,i} * A_{PressLoad,i}}{H_i}$$

where:

- DSTP = door skin throughput per hour, ft<sup>2</sup>/hour
- N<sub>PressLoads,i</sub> = number of press loads per shift, i
- A<sub>PressLoad,i</sub> = maximum area of door skins pressed per press load in shift, i, ft<sup>2</sup>
- H<sub>i</sub> = number of hours of press operation per shift, i, hours

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

- c. The Permittee shall submit a summary report of the records kept per 2.2.A.5.b. 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.

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

- d. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above any applicable emission limits, the Permittee shall be deemed in noncompliance.

**6. 15A NCAC 02D .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 emission sources subject to “MACT Subpart DDDD” as indicated in the permitted equipment list the Permittee shall comply with compliance options and operating requirements described in Tables 1A, 1B, and 2 to 40 CFR 63 and in paragraph 40 CFR 63.2240 (c) by using one or more of the compliance options listed in paragraphs (a), (b), and (c) of 40 CFR 63.2240 for each process unit. [40 CFR 63.2240]
- e. 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)]
- f. 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)]
- g. 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 g. are not met.

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

- h. The Permittee shall meet each work practice requirement per 40 CFR 63.2241, as applicable. [40 CFR 63.2241]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the work practice requirements in condition h. are not met.

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

- i. For process units not subject to the operating requirements in condition (d) through (g), 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 02D .2601]

- j. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in condition d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1112.

**Initial Compliance Requirements** [15A NCAC 02D .2601, 40 CFR 63.2260 through 40 CFR 63.2269]

- k. To demonstrate initial compliance with the compliance options and operating requirements, the Permittee must conduct performance tests and establish each site-specific operating requirement in Table 2 to 40 CFR 63 Subpart DDDD according to the requirements in 40CFR 63.2262 and Table 4 to 40 CFR 63 Subpart DDDD.

- l. The Permittee must demonstrate initial compliance with each compliance option, operating requirement, and work practice requirement that applies to the Permittee according to Tables 5 and 6 to 40 CFR 63 Subpart DDDD and according to 40 CFR 63.2260 through 40 CFR 63.2269.
- m. The Permittee shall conduct performance tests no later than **December 1, 2008** and according to §63.7(a)(2).
- n. The Permittee shall conduct initial compliance demonstrations that do not require performance tests upon initial startup or no later than **November 30, 2008**, whichever is later.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the initial compliance requirements in conditions k. through n. are not met.

**Monitoring and Continuous Compliance Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.2270]

- o. The Permittee shall monitor and collect data according to 40 CFR 63.2270.
- p. The Permittee shall demonstrate continuous compliance with the compliance options, operating requirements, and work practice requirements in 40CFR 63.2240 and 63.2241 that apply according to the methods specified in Tables 7 and 8 to 40 CFR 63 Subpart DDDD.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in conditions o. and p. are not met.

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

- q. The Permittee must keep the records listed in 40 CFR 63.2282(a).
- r. The Permittee must keep the records required in Tables 7 and 8 to 40 CFR 63 Subpart DDDD to show continuous compliance with each compliance option, operating requirement, and work practice requirement that applies.[40CFR 63.2282(b)]
- s. 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)]
- t. As specified in 40 CFR 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)]
- u. 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 q. through u.

**Notification Requirements** [40 CFR 63.2280]

- v. 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)]
- w. If you are required to conduct a performance test, you must submit a written notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as specified in §63.7(b)(1).
- x. If you are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Tables 4, 5, and 6 to 40 CFR 63 Subpart DDDD, you must submit a Notification of Compliance Status as specified in 40 CFR 63.9(h)(2)(ii) by December 1, 2008.
  - i. For each initial compliance demonstration required in Table 5 or 6 to 40 CFR 63 Subpart DDDD that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.
  - ii. For each initial compliance demonstration required in Tables 5 and 6 to 40 CFR 63 Subpart DDDD that includes a performance test conducted according to the requirements in Table 4 to 40 CFR 63 Subpart DDDD, you must submit the Notification of Compliance Status, including the performance test results, by December 1, 2008 according to 40 CFR 63.10(d)(2).
- y. If you use the emissions averaging compliance option in 40 CFR 63.2240(c), you must submit an Emissions Averaging Plan to the EPA Administrator for approval no later than 1 year before the compliance date or no

later than 1 year before the date you would begin using an emissions average, whichever is later. The Emissions Averaging Plan must include the information in 40 CFR 63.2280(f).

- z. 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 condition (d).
  - ii. The shut down of any process unit included in the Emissions Averaging Plan.
  - iii. The change in a continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit or control device.

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

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

- aa. 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)]
- bb. The compliance report must contain the information in 40 CFR 63.2281(c).
- cc. For each deviation from a compliance option or operating requirement and for each deviation from the work practice requirements in Table 8 to 40 CFR 63 Subpart DDDD that occurs at an affected source where you are not using a CMS to comply with the compliance options, operating requirements, or work practice requirements in this subpart, the compliance report must contain the information in 40 CFR 63.2281(c)(1) through (6) and (d)(1) and (2). This includes periods of startup, shutdown, and malfunction and routine control device maintenance. [40 CFR 63.2281(d)]
- dd. 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 40 CFR 63 Subpart DDDD, you must include the information 40 CFR 63.2281(c)(1) through (6) and paragraphs (e)(1) through (11). This includes periods of startup, shutdown, and malfunction and routine control device maintenance. [40 CFR 63.2281(e)]
- ee. If you comply with the emissions averaging compliance option in 40 CFR 63.2240(c), you must include in your semiannual compliance report calculations based on operating data from the semiannual reporting period that demonstrate that actual mass removal equals or exceeds the required mass removal. [40 CFR 63.2281(f)]

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

## 2.3- Schedule of Compliance

JELD-WEN, Inc. has been deemed to be in non-compliance with 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.

The emission sources indicated as "**MACT Subpart DDDD**" in the permitted equipment list in Section 1 are subject to the compliance schedule described below. This compliance schedule is an enforceable sequence of actions with milestones leading to compliance with applicable requirements for which the source is in noncompliance at the time of permit issuance. Any judicial consent decree or an administrative order to which the source is subject shall be supplemental to and shall not sanction noncompliance with other applicable requirements on which it is based [15A NCAC 2Q .0508(i)(16) and(m)].

- A. **Actions to be Taken by the Permittee** - The Permittee, desiring to comply with the legal requirements of this permit and with all pertinent provisions of the law and applicable requirements, is subject to the following activities:
1. The Permittee shall continue to work with the USEPA to achieve a Consent Decree. Upon consent to the entry of the Consent Decree, JELD-WEN shall submit a permit application concurrently with the submittal of the "Initial MACT Compliance Plan" described in the Consent Decree.

## SECTION 3 - GENERAL CONDITIONS (version 3.0)

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)(3)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ATTACHMENT  
**List of Acronyms**

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