

**State of North Carolina,
Department of Environment,
and Natural Resources
Division of Air Quality**



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
00007T16	00007T15	January 25, 2007	December 31, 2011

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

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

Permittee: **Georgia-Pacific Wood Products, LLC - Whiteville Plywood Plant & Chip-N-Saw Plant**

Facility ID: **2400040**
Facility Site Location: **1980 Georgia Pacific Road**
City, County, State, Zip: **Whiteville, Columbus County, North Carolina 28472**

Mailing Address: **P. O. Box 589**
City, State, Zip: **Whiteville, Columbus County, North Carolina 28472**

Application Number: **2400040.05A**
Complete Application Date: **February 28, 2005**

Primary SIC Code: **2436, 2421**

Division of Air Quality,
Regional Office Address: **Wilmington Regional Office**
127 Cardinal Drive Ext.
Wilmington, North Carolina 28405

Permit issued this the 25th day of January, 2007

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

Table Of Contents

PART I
(WHITEVILLE PLYWOOD PLANT)

- SECTION 1: PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES
(*PLYWOOD PLANT*)
- SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS (*PLYWOOD PLANT*)
- 2.1- Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)

PART I
(WHITEVILLE CHIP-N-SAW PLANT)

- SECTION 1: PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES
(*CHIP-N-SAW PLANT*)
- SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS (*CHIP-N-SAW PLANT*)
- 2.1- Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- 2.2- Multiple Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT
List of Acronyms

PART II

This permit does not include a Part II

PART I

- PLYWOOD PLANT-

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

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

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-TC	One tops chipper (36 tons per hour maximum process rate)	CD-601	One simple cyclone (84 inches in diameter)
ES-OC	One overs rechipper (3.6 tons per hour maximum process rate)	CD-603	One simple cyclone (60 inches in diameter)
ES-GC	One truck and railcar green chip transfer system (40 tons per hour maximum process rate each), operating on an alternating basis	CD-604 CD-604a	Two simple cyclones (72 inches in diameter each), operating on an alternating basis (only one cyclone can operate at a time)
ES-DW	One saw and hog wood collection system (6.2 tons per hour maximum process rate)	CD-605	One simple cyclone (144 inches in diameter)
ES-DCC	One dry chip conveying system (6.2 tons per hour maximum process rate)	CD-606A CD-606B	Two simple cyclones (54 inches and 84 inches in diameter, respectively), operating on an alternating basis (only one cyclone can operate at a time)
ES-MS	One plywood sander (10 tons per hour maximum process rate)	CD-607A	One simple cyclone (144 inches in diameter)
ES-FA	One tongue and groove machine, and one 303 specialty machine (10 tons per hour combined maximum process rate)	CD-607B	One simple cyclone (144 inches in diameter)
ES-SSC	One sander dust transfer system (10 tons per hour maximum process rate)	CD-608	One simple cyclone (45 inches in diameter)
ES-B1 CAM	One wood fired boiler ¹ (241.5 million Btu per hour heat input rate)	CD-VS1 CD-MC1	One venturi scrubber (750 gallons per minute minimum scrubbing liquid flow rate) installed in series with: One multiclone (128, 10-inch diameter tubes each)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
MACT-Subpart DDDD ES-VD1 ES-VD2 ES-VD3	Three veneer dryers (54,000 sq. ft. per hour, 3/8 inch basis, combined maximum process rate)	RTO-VD	One natural gas-fired regenerative thermal oxidizer (9.0 million Btu per hour heat input rate) <i>The RTO is not yet installed, but will be installed and operational by MACT compliance date, October 1, 2008</i>
MACT-Subpart DDDD F-VP1 F-VP2 F-VP3	Three plywood presses (51,000 sq. ft. per hour, 3/8 inch basis, combined maximum process rate)	N/A	N/A
F-DB	Two debarkers (112 tons per hour combined maximum process rate)	N/A	N/A

1 The boiler is also permitted to burn up to 500 gallons/week of used hydraulic oil, and insignificant amounts of used oil (associated with spill cleanup), diesel fuel (to aid in initial firing during start-up only) and confidential office papers.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) Specific Limitations and Conditions

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

A. One tops chipper (36 tons per hour maximum process rate, ID No. ES-TC) with associated simple cyclone (84 inches in diameter, ID No. CD-601)

One overs rechipper (3.6 tons per hour maximum process rate, ID No. ES-OC) with associated simple cyclone (60 inches in diameter, ID No. CD-603)

One truck and railcar green chip transfer system, operating on an alternating basis (40 tons per hour maximum process rate each, ID No. ES-GC) with two associated simple cyclones, operating on an alternating basis (only one cyclone can operate at a time, cyclone CD-604 feeds truck bin and cyclone CD-604a feeds railcars) (72 inches in diameter each, ID Nos. CD-604 and CD-604a)

One saw and hog wood collection system (6.2 tons per hour maximum process rate, ID No. ES-DW) with associated simple cyclone (144 inches in diameter, ID No. CD-605)

One dry chip conveying system (6.2 tons per hour maximum process rate, ID No. ES-DCC) with two associated simple cyclones, operating on an alternating basis (only one cyclone can operate at a time, cyclone CD-606A feeds boiler and cyclone CD-606B feeds railcars) (54 inches and 84 inches in diameter, respectively, ID Nos. CD-606A and CD-606B)

One plywood sander (10 tons per hour maximum process rate, ID No. ES-MS) with associated simple cyclone (144 inches in diameter, ID No. CD-607A)

One tongue and groove machine, and one 303 specialty machine (10 tons per hour combined maximum process rate, ID No. ES-FA) with associated simple cyclone (144 inches in diameter, ID No. CD-607B)

One sander dust transfer system (10 tons per hour maximum process rate, ID No. ES-SSC) with associated simple cyclone (45 inches in diameter, ID No. CD-608)

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 duct work and properly designed collectors	15A NCAC 2D .0512
Visible emissions	40 percent opacity	15A NCAC 2D .0521(c)

1. 15A NCAC 2D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

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

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

- b. Particulate matter emissions from the wood material collection systems shall be controlled by cyclones. 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 cyclones noting the structural integrity.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork and cyclones are not inspected and maintained.

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

- c. The results of inspection and maintenance for the cyclones shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

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

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

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

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 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 every six-month the Permittee shall observe the emission points of sources (**ID Nos. ES-TC, ES-OC, ES-GC, ES-DW, ES-DCC, and ES-FA**) for any visible emissions above normal. In addition, to assure compliance, once a week the Permittee shall observe the emission points of sources (**ID Nos. ES-MS and ES-SSC**) for any visible emissions above normal. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 A.2.a** above.
 If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
 The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

B. One wood fuel-fired boiler (241.5 million Btu per hour heat input rate, ID No. ES-B1), and associated multiclone (128, 10-inch diameter tubes each, ID No. ES-MC1) and venturi scrubber (750 gallons per minute minimum scrubbing liquid flow rate, ID No. ES-VS1) in series

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	0.34 pounds per million Btu heat input	15A NCAC 2D .0504
Sulfur dioxide	2.3 pound per million Btu heat input	15A NCAC 2D .0516
Particulate matter	0.1 pounds per million Btu heat input	15A NCAC 2D .0524 40 CFR Part 60, Subpart Db
Visible emissions	20 percent opacity (6-minute average) except on 6-minute period per hour not more than 27 percent opacity	15A NCAC 2D .0524 40 CFR Part 60, Subpart Db

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 **0.34 pounds per million Btu heat input**. [15A NCAC 2D .0504]

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

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

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

- c. Particulate matter emissions from the boiler shall be controlled by a multiclone and venturi scrubber with water scrubbing medium. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include:
 - i. a monthly external visual inspection of the system ductwork and material collection unit for leaks;
 - ii. an annual internal inspection of the multiclone's structural integrity;
 - iii. an annual inspection of spray nozzles to detect clogging or corrosion damage of nozzles and perform maintenance and repair when necessary to assure proper operation of the venturi scrubber; and
 - iv. an annual inspection, cleaning, and calibration of all associated instrumentation.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the multiclone and venturi scrubber are not inspected and maintained.
- d. The Permittee shall install, operate, and maintain a pressure drop indicator on the multiclone. The pressure drop across the multiclone shall be maintained between 2 and 5 inches of H₂O (15-minute average basis). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the pressure drop on multiclone is not maintained within this prescribed limit.
- e. The Permittee shall install, operate, and maintain a scrubbing liquid flowmeter and a pressure drop indicator on the venturi scrubber. In no case shall the scrubbing liquid flow rate fall below 750 gpm or shall the pressure drop across the scrubber shall fall below 7 inches water. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the scrubbing liquid flow rate and the pressure drop across the scrubber are not maintained above the above prescribed limits.

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

- f. The results of any inspection and maintenance, and monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the scrubbing liquid flow rate and the pressure drop across the scrubber once a week at a minimum;
 - iii. the pressure drop across the multiclone once a week at a minimum;
 - iv. the results of each inspection;
 - v. a description of any maintenance performed on the scrubber and the multiclone; and
 - vi. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if these records are not maintained.

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

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

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

- a. Emissions of sulfur dioxide from this source 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 .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ 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/Reporting [15A NCAC 2Q .0508(f) and 15A NCAC 2D .0501(c)(4)(A)]

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

3. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS (40 CFR PART 60 SUBPART Db)

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements in accordance with 15A NCAC 2D .0524, "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60, Subpart Db, including Subpart A "General Provisions." [15A NCAC 2D .0524]

NSPS Emissions Limitations [15A NCAC 2D .0524]

- b. As required by 15A NCAC 2D .0524, the following permit limits shall not be exceeded:

Affected Facility	Pollutant	Emission Limit
Boiler (ID No. ES-B1)	Particulate matter	0.1 lbs per million Btu heat input
	Visible emissions	20 percent opacity (6-minute average) except one 6 minute period per hour not more than 27 percent

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

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 3. b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.
- d. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits above by testing the boiler (ID No. ES-B1) for particulate matter and opacity once every five years in accordance with a testing protocol approved by the DAQ. The Permittee shall also collect data for scrubbing liquid flow rate and pressure drop across the venturi scrubber, and the pressure drop across the multiclone during the stack testing. Details of the emissions testing and reporting requirements can be found in Section 3 - General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 3. b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

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

- e. 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 within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 B.3. b. 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 .0524.
- f. The monitoring requirements as included in Section 2.1 B. 1. c. through e. above shall be sufficient to assure compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the monitoring requirements are not performed, as per Section 2.1 B. 1. c. through e. above. All instances of deviations from the requirements of this permit must be clearly identified.

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

- g. In addition to any other recordkeeping and reporting requirements of the EPA (as included in 40CFR60 Subpart A), the Permittee is required to maintain records and report as follows:
 - i. Pursuant to 60.49b(d) the Permittee shall record and maintain records of the amounts of each fuel fired during each day and calculate the annual capacity factor individually for wood and distillate oil for each semi-annual period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
 - ii. Pursuant to 60.49b(o) all records required under this Subpart shall be maintained for a period of 2 years following the date of such record.

iii. The Permittee shall also comply with Section 2.1 B.1.f. requirements to assure compliance with this requirement.

If the records are not maintained or indicate the limits included in Section 2.1 B.3.b. are exceeded, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

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

- h. 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.

C. Three veneer dryers (54,000 sq. ft. per hour, 3/8 inch basis, combined maximum process rate, ID Nos. ES-VD1, ES-VD2, ES-VD3) and associated regenerative thermal oxidizer (ID No. RTO-VD)

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	$E = 55.0 (P)^{0.11} - 40$ Where: E = Allowable emission rate in pounds per hour P = Process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	ES-VD1 and ES-VD2 40 percent opacity ES-VD3 20 percent opacity	15A NCAC 2D .0521(c) 15ANCAC 2D .0521(d)
Toxic air pollutants (TAP)	State only requirement , facility-wide acrolein, benzene, formaldehyde, and manganese emissions shall not exceed modeled emission rates, See Section 2.2 C.	15A NCAC 2D .1100
Hazardous air pollutants (HAP)	Maximum achievable control technology (MACT), See Section 2.2 D.	15A NCAC 2D .1111

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 55.0 \times P^{0.11} - 40 \quad \text{Where: } E = \text{allowable emission rate in pounds per hour}$$

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- d. No reporting is required for particulate matter emissions from these sources.

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

- a. Visible emissions from these sources (**ID Nos. ES-VD1 and ES-VD2**) shall not be more than 40 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 40 percent opacity if: (1) no six-minute period exceeds 90 percent opacity, (2) no more than one six-minute period exceeds 40 percent opacity in any hour, and (3) no more than four six-minute periods exceed 40 percent opacity in any 24-hour period. [15A NCAC 2D .0521(c)]
- b. Visible emissions from this source (**ID No. ES-VD3**) shall not be more than 20 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 20 percent opacity if: (1) no six-minute period exceeds 87 percent opacity, (2) no more than one six-minute period exceeds 20 percent opacity in any hour, and (3) no more than four six-minute periods exceed 20 percent opacity in any 24-hour period. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 2. a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 C.2. a.** or b. above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- e. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

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

D. Three plywood presses (51,000 sq. ft. per hour, 3/8 inch basis, combined maximum process rate, ID Nos. F-VP1, F-VP2, F-VP3)

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	F-VP1 and F-VP2 40 percent	15A NCAC 2D .0521(c)
	F-VP3 20 percent	15A NCAC 2D .0521(d)
Toxic air pollutants (TAP)	State-only requirement , facility-wide acrolein, benzene, formaldehyde, and manganese emission rates shall not exceed modeled emission rates, See Section 2.2 C.	15A NCAC 2D .1100
Hazardous air pollutants (HAP)	Maximum achievable control technology (MACT), See Section 2.2 D.	15A NCAC 2D .1111

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 plywood presses shall be controlled by adequate ductwork. To assure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:
 - i. 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 ductwork is not inspected and maintained.

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

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

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 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 these sources (**ID Nos. F-VP1 and F-VP2**) shall not be more than 40 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 40 percent opacity if: (1) no six-minute period exceeds 90 percent opacity, (2) no more than one six-minute period exceeds 40 percent opacity in any hour, and (3) no more than four six-minute periods exceed 40 percent opacity in any 24-hour period. [15A NCAC 2D .0521(c)]
- b. Visible emissions from this source (**ID No. F-VP3**) shall not be more than 20 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 20 percent opacity if: (1) no six-minute period exceeds 87 percent opacity, (2) no more than one six-minute period exceeds 20 percent opacity in any hour, and (3) no more than four six-minute periods exceed 20 percent opacity in any 24-hour period. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D. 2. a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 D.2. a.** or b. above.
If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- e. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

- f. The Permittee shall submit a summary report of the observations postmarked 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. Two debarkers (112 tons per hour combined maximum process rate, ID No. F-DB)

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	No applicable requirements	N/A

PART I

-CHIP-N-SAW PLANT-

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

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

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Fug-DB	Two fugitive debarkers	N/A	N/A
ES-TC	Tops chipper transfer system	CD-701	Cyclone (84 inches in diameter)
ES-SCS	Sawdust conveying system discharging to the plywood fuel house hog or to the sawdust bin (ID No. Fug-FG5) or sawdust rail bin (ID No. Fug-FG8)	CD-703 CD-704 CD-709	Cyclone (84 inches in diameter), Cyclone (60 inches in diameter), and Cyclone (32 inches in diameter) operating on an alternating basis
ES-CCS	Chip conveying system discharging to the truck load-out chip bin (Fug-FG3) or railcar load-out chip bin (Fug-FG4)	CD-705A CD-705B	Two cyclones (72 inches in diameter each) operating on an alternating basis
ES-PS	Planer shavings conveying system	CD-706	Cyclone (144 inches in diameter)
ES-SB	Shavings bin conveying system	CD-707	Cyclone (60 inches in diameter)
Fug-FG3	Fugitive truck load-out chip bin	N/A	N/A
Fug-FG4	Fugitive railcar load-out chip bin	N/A	N/A
MACT – Subpart DDDD ES-LK1 ES-LK2 ES-LK3 ES-LK4	Four steam heated lumber drying kilns	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) Specific Limitations and Conditions

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

A. Woodworking operations including:

- Two fugitive debarkers (ID No. Fug-DB),
- One tops chipper transfer system (ID No. ES-TC) and associated cyclone (ID No. CD-701),
- One sawdust conveying system (ID No. ES-SCS) and associated cyclones (ID Nos. CD-703 CD-704, and CD-709),
- One chip conveying system (ID No. ES-CCS) and associated cyclones (ID Nos. CD-705A and CD-705B),
- One planer shavings conveying system (ID No. ES-PS) and associated cyclone (ID No. CD-706),
- One shavings bin conveying system (ID No. ES-SB) and associated cyclone (ID No. CD-707), and
- Two fugitive chip bins (ID Nos. Fug-FG3 and Fug-FG4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	<i>ID No. ES-PS</i> 20 percent opacity	15A NCAC 2D .0521(d)
	<i>ID Nos. Fug-DB, ES-TC, ES-SCS, ES-CCS, ES-SB, Fug-FG3, and Fug-FG4</i> 40 percent opacity	15A NCAC 2D .0521(c)
Odors	See Multiple Emissions Section 2.2 A. State only requirement	15A NCAC 2D .1806

1. 15A NCAC 2D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

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

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

- b. Particulate matter emissions from the wood material collection systems (**ID Nos. ES-TC, ES-SCS, ES-CCS, ES-PS, ES-SB**) shall be controlled by eight cyclones. 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 cyclones noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork and cyclones are not inspected and maintained.

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

- c. The results of inspection and maintenance for the cyclones shall be maintained in a log (written or electronic format) on-site and made available to an authorized DAQ representative upon request. The log shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

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

- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities 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.

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

- a. Visible emissions from the woodworking operation (**ID No. ES-PS**) shall not be more than 20 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 20 percent if: (1) no six-minute period exceeds 87 percent opacity, (2) no more than one six-minute period exceeds 20 percent opacity in any hour, and (3) no more than four six-minute periods exceed 20 percent opacity in any 24-hour period. [15A NCAC 2D .0521 (d)]
- b. Visible emissions from the woodworking operations (**ID Nos. Fug-DB, ES-TC, ES-SCS, ES-CCS, ES-SB, Fug-FG3, and Fug-FG4**) shall not be more than 40 percent opacity when averaged over a six-minute period. Six-minute averaging periods may exceed 40 percent if: (1) no six-minute period exceeds 90 percent opacity, (2) no more than one six-minute period exceeds 40 percent opacity in any hour, and (3) no more than four six-minute periods exceed 40 percent opacity in any 24-hour period. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 2D .0501(c)(8)]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 2. a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. To assure compliance, once every six months the Permittee shall observe the emission points of these sources for any visible emissions above normal. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 A.2. a.** or b. above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- e. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized DAQ representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

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

- f. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December, and by 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. Four steam heated lumber drying kilns (ID Nos. ES-LK1, ES-LK2, ES-LK3, and ES-LK4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	See Section 2.2 A. State only requirement	15A NCAC 2D .1806
Toxic air pollutants (TAP)	State only requirement , facility-wide acrolein, benzene, formaldehyde, and manganese emissions shall not exceed the modeled emission rates, See Section 2.2 C.	15A NCAC 2D .1100
Hazardous air pollutants (HAP)	Maximum achievable control technology (MACT), See Section 2.2 D.	15A NCAC 2D .1111, <i>40 CFR Part 63, Subpart DDDD</i>

SECTION 2.2 - MULTIPLE EMISSION SOURCES SPECIFIC LIMITATIONS AND CONDITIONS (PLYWOOD PLANT and CHIP-N-SAW PLANT)

A. All emission sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	Odorous emissions must be controlled State enforceable only	15A NCAC 2D .1806

State Only Requirement

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

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

State Only Requirement

B. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS for TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT

- a. As of January 25, 2007 emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described in Section 2.2 C..
- b. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any TAP listed in 15A NCAC 2Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TPER listed in 15A NCAC 2Q .0711 without first obtaining an air permit to construct or operate.
- c. PRIOR to exceeding any of the TPERs listed in 15A NCAC 2Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- d. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 2Q .0711.

State Only Requirement

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

EMISSION SOURCE(S)	TOXIC AIR POLLUTANT(S)	EMISSION LIMIT(S)
Tongue and groove machine and 303 specialty machine (ID No. ES-FA)	Formaldehyde	0.146 pounds per hour
Plywood sander (ID No. ES-MS)		0.08 pounds per hour
Saw and hog wood collection system (ID No. ES-DW)		0.019 pounds per hour
Three plywood veneer dryers (ID Nos. ES-VD1, ES-VD2 and ES-VD3)		0.31 pounds per hour
Veneer dryer No. 1 cooling stack A		0.02 pounds per hour
Veneer dryer No. 1 cooling stack B		0.02 pounds per hour
Veneer dryer No. 1 cooling stack C		0.02 pounds per hour
Veneer dryer No. 2 cooling stack A		0.018 pounds per hour
Veneer dryer No. 2 cooling stack B		0.018 pounds per hour
Veneer dryer No. 2 cooling stack C		0.018 pounds per hour
Veneer dryer No. 3 cooling stack A		0.013 pounds per hour
Veneer dryer No. 3 cooling stack B		0.013 pounds per hour
Veneer dryer No. 3 cooling stack C		0.013 pounds per hour
Lumber kiln No. 1 (ID No. ES-LK1)		0.078 pounds per hour
Lumber kiln No. 2 (ID No. ES-LK2)		0.249 pounds per hour
Lumber kiln No. 3 (ID No. ES-LK3)		0.249 pounds per hour
Lumber kiln No. 4 (ID No. ES-LK4)		0.078 pounds per hour
Resin storage tank No. 1 (ID No. F-TK1)		0.001 pounds per hour
Resin storage tank No. 2 (ID No. F-TK2)		0.001 pounds per hour
Resin storage tank No. 3 (ID No. F-TK3)		0.0034 pounds per hour
Resin mix tank No. 1 (ID No. RESMIX1)	0.0016 pounds per hour	
Resin mix tank No. 2 (ID No. RESMIX2)	0.0016 pounds per hour	
Plywood press No. 1 (ID No. F-VP1)	0.092 pounds per hour	
Plywood press No. 2 (ID No. F-VP2)	0.092 pounds per hour	
Plywood press No. 3 (ID No. F-VP-3)	0.092 pounds per hour	
Plywood press fugitive (ID No. F-VP4)	0.028 pounds per hour	
Veneer conditioning chamber (ID No. F-VSO)	0.0007 pounds per hour	

EMISSION SOURCE(S)	TOXIC AIR POLLUTANT(S)	EMISSION LIMIT(S)
Three plywood veneer dryers (ID Nos. ES-VD1, ES-VD2, and ES-VD3)	Benzene	142 pounds per year
Three plywood veneer dryers (ID Nos. ES-VD1, ES-VD2, and ES-VD3)	Acrolein	0.013 pounds per hour
Lumber kiln No. 1 (ID No. ES-LK1)		0.017 pounds per hour
Lumber kiln No. 2 (ID No. ES-LK2)		0.055 pounds per hour
Lumber kiln No. 3 (ID No. ES-LK3)		0.055 pounds per hour
Lumber kiln No. 4 (ID No. ES-LK4)		0.017 pounds per hour

Since facility-wide toxic air pollutant emissions were modeled at maximum production rate, no monitoring, recordkeeping or reporting is required.

D. 15A NCAC 2D .1111 [40 CFR Part 63 Subpart DDDD] National Emissions Standards for Hazardous Air Pollutants from Plywood and Composite Wood Manufacturers

1. For an existing affected source, the Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111 “Maximum Achievable Control Technology” (MACT) as promulgated in 40 CFR Part 63, Subpart DDDD by October 1, 2008. [40 CFR 63.7995] *Though not yet installed, the RTO will be installed and operational by the MACT compliance date.*
2. Within 180 days following the MACT compliance date (October 1, 2008), the Permittee shall test the RTO to determine overall control efficiency and establish appropriate operating parameters.

E. 15A NCAC 2D .0614 “COMPLIANCE ASSURANCE MONITORING”

1. Pursuant to 40 CFR Part 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following.
2. **Background**
 - a. Emission unit: wood fuel-fired boiler (ID No. ES-B1)
 - b. Applicable regulations: 15A NCAC 2D .0504, 2D .0516, and 2D .0524 (Subpart Db)

Emission limits: 0.34 pounds per million Btu heat input (2D .0504 particulate matter)
 0.1 pounds per million Btu heat input (2D 0524, Subpart Db particulate matter)
 20 percent opacity (2D .0524, Subpart Db)

Control Technology: multicyclone in series with venturi scrubber

3. **Monitoring Approach** The key elements of the monitoring approach are presented in the following table.

	Indicator No. 1	Indicator No. 2	Inspection/Maintenance
Indicator [64.6(c)(1)(i)]	Pressure drop (ΔP) across the <i>multicyclone</i>	Pressure drop (ΔP) and liquid flow rate to <i>venturi scrubber</i>	Monthly maintenance and structural integrity inspection. Maintenance performed as needed.
Measurement Approach [64.6(c)(1)(ii)]	A pressure drop indicator shall be used to measure ΔP across <i>multicyclone</i>	A pressure drop indicator shall be used to measure ΔP across the <i>venturi scrubber</i>	

	Indicator No. 1	Indicator No. 2	Inspection/Maintenance
		A flow meter shall be used to measure liquid flow rate to the <i>venturi scrubber</i>	
Indicator Range [64.6(c)(2)]	An excursion for the <i>multicyclone</i> is defined as any operating condition where the ΔP is less than 2" H ₂ O or greater than 5" H ₂ O, based on a 15-minute average	An excursion for the <i>venturi scrubber</i> is defined as any operating condition where ΔP is less than 7" H ₂ O or liquid flow rate is less than 750 gpm, based on a 15-minute average	
Bypass [64.3(a)(2)]	If the ΔP falls below 1" H ₂ O, the possibility of bypass is investigated	If the ΔP falls below 1" H ₂ O, the possibility of bypass is investigated	
QIP Threshold [64.8]	15-minute average ΔP readings outside range 5 times within a 6-month period	15-minute average ΔP readings and 15-minute average liquid flow rate readings outside range 5 times within a 6-month period	
Performance criteria/data representativeness [64.6(c)(1)(iii)]	ΔP : minimum acceptable accuracy of pressure drop indicator per manufacturers specifications	ΔP and Liquid flow rate: minimum acceptable accuracy of pressure drop indicator and flow meter per manufacturers specifications	Inspections are made at the control system
Verification of operational status [64.3(b)(1)]	N/A	N/A	
QA/QC Practices and Criteria [64.3(b)(3)]	ΔP : visual inspections, calibrations, and routine maintenance per manufacturers recommendations <i>multicyclone</i> : inspect and maintain per manufacturers recommendations	ΔP and flow meter: visual inspections, calibrations, and routine maintenance per manufacturers recommendations <i>venturi scrubber</i> : inspect and maintain per manufacturers recommendations	Qualified personnel perform inspection
Monitoring frequency [64.3(b)(4)]	ΔP measured continuously	ΔP and liquid flow rate measured continuously	Monthly inspection
Data collection procedures [64.3(b)(4)]	Recorded manually once per day	Recorded manually once per day	Records are maintained to document monthly inspections and required maintenance

	Indicator No. 1	Indicator No. 2	Inspection/Maintenance
Recordkeeping and Reporting [64.9]	Excursion reports and corrective actions, boiler shift reports, I&M logs for ΔP monitoring and recording system, multicyclone inspection and maintenance reports Semi-annual reports include: Investigative and corrective action report, Date, time, and duration of excursion, Cause of and corrective actions taken to eliminate excursion, and Measures taken to prevent re-occurrence A description of the actions taken to implement a QIP (as applicable)	Excursion reports and corrective actions, I&M logs for ΔP and liquid flow rate monitoring and recording system, scrubber inspection and maintenance reports Semi-annual reports include: Investigative and corrective action report, Date, time, and duration of excursion Cause of and corrective actions taken to eliminate excursion, and Measures taken to prevent re-occurrence A description of the actions taken to implement a QIP (as applicable)	

SECTION 3 - GENERAL CONDITIONS (PLYWOOD PLANT & CHIP-N-SAW PLANT)

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

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

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

requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

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

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

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

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

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

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

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

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

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

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

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

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

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

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

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

H. **Changes Not Requiring Permit Modifications**

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

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

 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
3. Emissions Trading [15A NCAC 2Q .0523(c)]

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

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

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

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

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

Excess Emissions

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

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

Permit Deviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

O. **Retention of Records** [15A NCAC 2Q .0508(i)(16) and 2Q .0517(f)]

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

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

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

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

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

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

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

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;

- c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 2Q .0523.
 4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

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

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

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

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

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

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

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(3)]

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

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

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

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

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

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

FEDERALLY-ENFORCEABLE ONLY

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

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

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

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

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

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

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

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

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

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application, the Permittee shall perform such testing in accordance with the appropriate EPA reference method(s) as approved by the DAQ and follow the procedures outlined below. The Permittee must request **in writing** and receive approval from the DAQ for an alternate test method or procedure.

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

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

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

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

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

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

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British Thermal unit
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CAA	Clean Air Act
DAQ	Division of Air Quality
DENR	Department of Environment and Natural Resources
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound