

March 6, 2008

Mr. Jeff Wagner
Vice President of OSB
Louisiana Pacific Corporation
Roxboro OSB Mill
10475 Boston Road
Roxboro, North Carolina 27573

Dear Mr. Wagner:

SUBJECT: Air Quality Permit No. **07760T15**
Facility ID: 05/73/00061
Louisiana Pacific Corporation – Roxboro OSB Mill
Roxboro
Person County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for renewal of a Title V permit received May 26, 2005 and a significant modification received November 1, 2006, we are forwarding herewith Air Quality Permit No. 07760T15 to Louisiana Pacific Corporation, Roxboro, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3 of Part I. **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,

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

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

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of 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.

In addition, specific changes and additions as summarized in the attached table have been made to the permit (note: this list may not include all changes and additions).

This Air Quality Permit shall be effective from April 5, 2008 until February 28, 2013, 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 Ms. Judy Lee, E.I.T. (judy.lee@ncmail.net), at (919) 715-6344.

Sincerely yours,

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

Enclosure

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

**ATTACHMENT to Air Quality Permit No. 07760T15 – March 6, 2008
Louisiana Pacific Corporation – Roxboro OSB Mill**

ATTACHMENT 1 - Permit Change Summary Table

The following table represents the changes to the current Title V permit as proposed to complete this permit modification:

Old Page Number	New Page Number	Condition Number	Change
--	Entire permit, where applicable		Removed reference to "Air Quality Title V Operation Permit" and "Air Quality Construction and Operation Permit" Updated language with current shell guidance Removed asterisks and footnotes for previously permitted new and modified sources
--	Attachment	Table of Changes	Added for this renewal
Page 3	Attachment	Insignificant Activities	Added six volatile organic liquid storage tanks from permit (2.1-D) to insignificant activities list due to Subpart Kb exemption (10/15/2003) Modified MDI storage tank to allow for storage of soybean oil per 7/2006 emails and renumbered tanks per September 2006 inspection report. Added Edge seal and printing operations per facilities request 11/20/2007
Pages 4&5	Pages 3&4	Part I, Section 1 - Equipment Table	Removed CP-009 and CYC9 controlled by B-9 because facility is not going to construct this source Moved six volatile organic liquid storage tanks to insign. activities list Added POS & AOS to account for exhausting the TOH to the atmosphere while firing natural gas only Removed "wood fuel/recycled resinated wood fuel" capabilities from the wafer dryers per facilities request Modified descriptions and control scenarios where applicable
Pages 6-10	Pages 6-7	Part I, Section 1 – Condition 2.1-A.1.	Modified to account for entire wafer drying process weight by adding equation $E=55.0(P)^{0.11} - 40 (P>30)$ and updated where applicable
Pages 6-10	Page 7	Part I, Section 1 – Condition 2.1-A.1.f.&i.	Modified "2.1-A.f." to include the language from "2.1-A.i." for the exit gas temperature and eliminate duplication in the permit language
--	Page 10	Part I, Section 1 – Condition 2.1-A.5.	Added Start-up and Shutdown condition for the bark burner per facility's request.
--	Pages 10-11	Part I, Section 1 – Condition 2.1-A.6.&7.	Added Alternative Operating Scenario condition per facility's request. Added new applicable regulation, 2D .0503, while firing natural gas only
Page 10	Pages 11-13	Part I, Section 1 – Condition 2.1-B.	Modified press vent descriptions to include "total enclosure" and board pressing operation
Pages 12-13	Pages 14-15	Part I, Section 1 – Condition 2.1-C.	Modified description by adding "wood product forming and finishing operations" then processes and updated control scenarios Removed CP-009 and CYC9 controlled by B-9
Page 14	Attachment	Part I, Section 1 – Condition 2.1-D.	Moved six volatile organic liquid storage tanks to insignificant activities list due to Subpart Kb exemption (10/15/2003)
--	Page 16	Part I, Section 1 – Condition 2.1-E.	Renumbered previous Conditions (E. for ENG-1 now becomes D.) Added Bark Handling fugitives (ID F-1) - no applicable requirements
Pages 15-18	Pages 18-20	Part I, Section 2 – Condition 2.2-A.2.&3.	Updated footnotes for insignificant activities Updated/corrected table based on application submittal
Pages 19-20	Pages 21-29	Part I, Section 2 – Condition 2.2-B.	Updated PSD Avoidance condition to include MRRR, equations and interim mass emission rates and operating parameters with testing required
--	Pages 30-33	Part I, Section 2 – Condition 2.2-C	Added section for CAM requirements for applicable PSEU's
--	Pages 34	Part I, Section 2 – Condition 2.2-D	Added section for new regulations for MACT affected sources
Pages 21-30	Pages 35-43	Part I, Section 3	Updated with most recent General Conditions & List of Acronyms
Pages 31-33	--	Part II	Removed Part II because all sources have been constructed and placed into

Old Page Number	New Page Number	Condition Number	Change
			operation and the complete Title V application has been submitted

**ATTACHMENT to Air Quality Permit No. 07760T15 – March 6, 2008
Louisiana Pacific Corporation – Roxboro OSB Mill**

ATTACHMENT 2 - INSIGNIFICANT ACTIVITIES

Emission Source ID No.	Emission Source Description	Regulation
IS-EO-1	edgeseal operation	15A NCAC 2Q .0503(8)
IS-PO-1	printing operation	
IS-D-1	diesel fuel tank	
IS-G-1	gasoline fuel tank	
IS-B-1	battery charging operation	
IS-WC-1	welding and cutting torch	
IS-DD-1	degreaser drum (55 gallons)	
IS-BC-1	blade cleaning operation	
IS-HH-1	hand held grinding equipment	
IS-PP-1	portable pump	
IS-CO-1	compressor oil	
IS-TO-1	thermal oil storage	
IS-HO-1	hydraulic oil storage reservoir	
IS-HO-2	hydraulic oil system	
IS-P-1	propane tank (1,000 pounds)	
IS-DB-1	debarker	
IS-W-2	waferizer	
IS-CT-1	cutting torch	
IS-BS-1	bench scale grinding	
IS-W-3	welder	
IS-N-1	nail line marking	
IS-SP-1	white stencil painting	
IS-PW-1	product and waste labeling	
IS-UO-1	used oil tank	
IS-C-1	paint spray booth	
IS-DF-1	diesel fire pump	
IS-W-1	wax tanks	
IS-WE-1 and IS-WE-2	two volatile organic liquid storage tanks (12,000 gallon capacity each)	15A NCAC 2D .0524 - Subpart Kb exemptions October 15, 2003, Federal Register (Volume 68, No. 199) and 15A NCAC 2Q .0503(8) ¹
IS-MDI-3 and IS-MDI-4	one volatile organic liquid or soybean oil storage tank ¹ and one volatile organic liquid storage tank, respectively (30,000 gallon capacity each)	
IS-PF-5 and IS-PF-6	two volatile organic liquid storage tanks (15,000 gallon capacity each)	

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



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Issue Date	Effective Date	Expiration Date
07760T15	07760T14	March 6, 2008	April 5, 2008	February 28, 2013

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: **Louisiana Pacific Corporation –
Roxboro OSB Mill**

Facility ID: **05/73/00061**

Facility Site Location: **10475 Boston Road
Roxboro, Person County, North Carolina 27573**

Mailing Address: **10475 Boston Road
Roxboro, North Carolina, 27573**

Application Number: **7300061.05A and 7300061.06A**
Complete Application Date: **May 26, 2005 and November 1, 2006**

Primary SIC Code: **2493**
Division of Air Quality, **Raleigh Regional Office**
Regional Office Address: **3800 Barrett Drive
Raleigh, North Carolina, 27609**

Permit issued this the 6th day of March, 2008

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

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting
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(Including specific requirements, testing, monitoring, recordkeeping, and
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PART II

This permit does not include a Part II.

PART I

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
BARK1 D-1 through D-5	<u>Wafer drying process</u> one bark/wood (dry and wet)-fired burner (190 million Btu per hour nominal heat input rate) providing heat to five natural gas-fired wafer dryers (40 million Btu per hour total heat input rate each)	PCYCD-1 through PCYCD-5, WESP-1 and WESP-2, and RTO-1 and RTO-2	five cyclones (144 inches in diameter each) installed one each on the dryers, two wet electrostatic precipitators (22,651 square feet of collection area each), and two propane/natural gas-fired regenerative thermal oxidizers (24 million Btu per hour heat input rate each)
NSPS TOH-1 TOH-2	<i><u>Primary Operating Scenario (POS)</u></i> two wood fuel/recycled resinated wood fuel/natural gas-fired thermal oil heaters (40 million Btu per hour heat input rate each) exhausting directly to the wafer dryers or the bark burner and indirectly supplying heat to the presses <i><u>Alternate Operating Scenario (AOS)</u></i> two wood fuel/recycled resinated wood fuel/natural gas-fired thermal oil heaters (40 million Btu per hour heat input rate each) exhausting to stacks while firing natural gas only		
CP-003 and CP-004	raw fuel bin transfer and loading system	B-3 and/ or CYC3	one bagfilter (2,219 square feet of filter area) and/or one bypass cyclone (96 inches in diameter)
CP-007	sanderdust bin transfer and loading system	B-7	one bagfilter (479 square feet of filter area)
FUELPREP	metering bin transfer and loading system	B-8 and/or CYC8	one bagfilter (2,219 square feet of filter area) and/or one bypass cyclone (84 inches in diameter)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
CP-002	<u>OSB forming process</u> blender and forming bin aspiration systems	B-2	one bagfilter (2,219 square feet of filter area)
CP-005	mat reject and flying saw system	CYC5-2, B-5, and/or CYC5-1	one bypass cyclone (120 inches in diameter), one bagfilter (5,235 square feet of filter area) and/or bypass cyclone (120 inches in diameter)
PV-1 and PV-2	<u>OSB board processing operation</u> two OSB press enclosure vents from one totally enclosed hot press	RTO-3	one propane/natural gas-fired regenerative thermal oxidizer (24 million Btu per hour heat input)
CP-001	<u>Finishing process</u> sawtrim and finishing line clean-up operation	B-1 and/or CYC1	one bagfilter (5,235 square feet of filter area) and/or one bypass cyclone (120 inches in diameter)
CP-006	tongue and groove and sanderdust aspiration system	B-6 and/or CYC6	one bagfilter (3,698 square feet of filter area) and/or one bypass cyclone (96 inches in diameter)
ENG1	one diesel-fired emergency generator (1,332 horsepower)	n/a	n/a
F-1	bark handling fugitives	n/a	n/a

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Wafer drying process consisting of:

**one bark burner (ID No. BARK1),
two thermal oil heaters (ID Nos. TOH-1 and TOH-2), and
five wafer dryers (ID Nos. D-1 through D-5); controlled by
five process cyclones (ID Nos. PCYCD-1 through PCYCD-5),
two wet electrostatic precipitators (ID Nos. WESP-1 and WESP-2), and
two regenerative thermal oxidizers (ID Nos. RTO-1 and RTO-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	<i>AOS - firing natural gas only</i> 0.35 pounds per million Btu heat input (ID Nos. TOH-1 and TOH-2)	15A NCAC 2D .0503
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 greater than 30 tons per hour Or $E=4.10(P)^{0.67}$ where E = allowable emission rate in pounds per hour P = process weight in tons per hour less than 30 tons per hour	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D 0521
	20 percent opacity (ID Nos. TOH-1 and TOH-2)	15A NCAC 2D .0524 - Subpart Dc
Particulate matter	<i>POS - firing wood fuel and/or recycled resinated wood fuel and/or natural gas</i> 0.10 pounds per million Btu heat input (ID Nos. TOH-1 and TOH-2)	15A NCAC 2D .0524 - Subpart Dc

Regulated Pollutant	Limits/Standards	Applicable Regulation
Carbon monoxide	Less than 250 tons per year facility-wide (See Section 2.2-B. – Multiple Emission Sources)	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Nitrogen oxides		
Particulate matter		
PM-10		
Volatile organic compounds		
PM-10	Compliance assurance monitoring (CAM) (See Section 2.2-C. – Multiple Emission Sources)	15A NCAC 2D .0614 (40 CFR 64)
Volatile Organic Compounds	Compliance assurance monitoring (CAM) (See Section 2.2-B. – Multiple Emission Sources)	15A NCAC 2Q .0317 for 15A NCAC 2D .0614(b)(1)(E)
Volatile Organic Compounds	Work Practice Standards (See Section 2.2-A.1. – Multiple Emission Sources)	15A NCAC 2D .0958
Toxic air pollutants	Toxic air pollutant emissions shall not exceed rates which cause established ambient levels to be exceeded; State-enforceable only (See Section 2.2-A.2. – Multiple Emission Sources)	15A NCAC 2D .1100
Hazardous Air Pollutants	(See Section 2.2-D.1&2. – Multiple Emission Sources)	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Odors	Odororous Emissions; State-enforceable only (See Section 2.2-A.4. – Multiple Emission Sources)	15A NCAC 2D .1806
Toxic air pollutants	TAP assessment of facility wide sources due with permit application to comply with last applicable MACT (i.e., Subpart DDDD), excluding the Boiler MACT (Subpart DDDDD - Vacated); State Only Requirement	15A NCAC 2Q .0705
Toxic air pollutants	Control of Toxic Air Pollutants – emission rates requiring a permit; State Enforceable Only (See Section 2.2-A.3. – Multiple Emission Sources)	15A NCAC 2Q .0711

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

- a. Emissions of particulate matter from the bark burner (**ID No. BARK1**), thermal oil heaters (**ID Nos. TOH-1 and TOH-2**), and five wafer dryers (**ID Nos. D-1 through D-5**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

Where E = allowable emission rate in pounds per hour
P = process weight in tons per hour greater than 30 tons per hour

Or

$$E = 4.10 \times P^{0.67}$$

Where E = allowable emission rate in pounds per hour
P = process weight in tons per hour less than 30 tons per hour

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

Testing [15A NCAC 2Q .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 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from the bark burner (**ID No. BARK1**), thermal oil heaters (**ID Nos. TOH-1 and TOH-2**), and five wafer dryers (**ID Nos. D-1 through D-5**) shall be controlled by cyclones (**ID Nos. PCYCD-1 through PCYD-5**), wet electrostatic precipitators (WESPs) (**ID Nos. WESP-1 and WESP-2**) and regenerative thermal oxidizers (RTOs) (**ID Nos. RTO-1 and RTO-2**). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. a monthly external visual inspection of the system ductwork and material collection units for leaks. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork, cyclones, WESPs, and RTOs are not inspected and maintained.
- d. To ensure compliance and effective operation of the WESPs (**ID Nos. WESP-1 and WESP-2**), 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 weekly external visual inspection of critical components of the wet electrostatic precipitator such as voltmeters, quench inlet temperature gauges, outlet temperature gauges, nozzles, pumps, and piping;
 - ii. a weekly check for any equipment that does not generate an alarm in the turned-off state, to ensure it is switched on;
 - iii. during planned maintenance shutdown periods for the WESP check for signs of plugging and buildup;
- and
- iv. a monthly external visual inspection of the system ductwork and material collection unit for leaks and corrosion. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the wet electrostatic precipitators and duct work are not inspected and maintained.
- e. In accordance with good operating practices, once per shift the Permittee shall monitor and record the secondary voltage, quench inlet gas temperature and exit gas temperature of the WESPs (**ID Nos. WESP-1 and WESP-2**). The secondary voltage, inlet gas temperature, and exit gas temperature shall be recorded electronically or in a written logbook, maintained on-site, and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the monitoring devices are not properly calibrated, operated, and maintained using procedures that take into account manufacturer's specifications and if the temperature and voltage records are not maintained. The Permittee shall be deemed in noncompliance if the secondary voltage is less than **35** kilovolts (kV), the inlet gas temperature is greater than **275** degrees Fahrenheit (°F), or the exit gas temperature is greater than **180** °F.
- f. The Permittee shall review, on a weekly basis, gas temperatures and voltage readings. If the gas temperatures and secondary voltage readings are observed to be outside the normal range, the Permittee shall inspect the wet electrostatic precipitators for malfunctions and repair, as necessary, in accordance to manufacturer's inspection and maintenance recommendations. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the inspections and repairs are not performed.
- g. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-

site and made available to an authorized representative upon request. The logbook shall record the following:

- i. the date and time of each recorded action;
- ii. the results of each inspection;
- iii. the results of any maintenance performed;
- iii. the causes for any variance from the normal operating ranges for the WESP's, if any, and corrective actions taken; and
- iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

- h. The Permittee shall submit the results of any maintenance performed on the cyclones, WESPs, and RTOs within 30 days of a written request by the DAQ.
- i. 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 the bark burner (**ID No. BARK1**), five wafer dryers (**ID Nos. D-1 through D-5**), TOHs (**ID Nos. TOH-1 and TOH-2**), and RTOs (**ID Nos. RTO-1 and RTO-2**) 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 A. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas, propane, bark/wood (dry and wet) fuel, or recycled resinated wood fuel in these combustion sources.

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

- a. Visible emissions from the bark burner (**ID No. BARK1**) and five wafer dryers (**ID Nos. D-1 through D-5**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

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. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. 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 .0501(c)(8) 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.

4. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc

- a. For the **thermal oil heaters (ID Nos. TOH-1 and TOH-2)**, the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, 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]

Emission Limitations [15A NCAC 2D .0524]

- b. Particulate matter emissions from the thermal oil heaters (**ID Nos. TOH-1 and TOH-2**) shall not exceed **0.10** pounds per million Btu heat input.
- c. Visible emissions from the thermal oil heaters (**ID Nos. TOH-1 and TOH-2**) shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity.
- Pursuant to 40 CFR Part 60.43c(d), the PM and opacity standards shall apply at all times except during periods of start-up, shutdown, and malfunction.

Monitoring and Recordkeeping [15A NCAC 2D .0524]

- d. The Permittee shall use a continuous opacity monitor system (COMS) to monitor and record opacity. The COMS shall be installed, calibrated, maintained, tested, and operated in accordance with 40 CFR Part 60 Appendix B "Performance Specifications" and Appendix F "Quality Assurance Procedures." The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the COMS is not calibrated, maintained, and tested. Records of these measurements shall be maintained on-site in written or electronic format and made available to DAQ personnel upon request.
- e. The Permittee shall record and maintain records of the amounts of each fuel combusted during each day. All records required under this rule shall be maintained for a period of two years following the date of such record.

f. Reporting Requirements [15A NCAC 2D .0524]

In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **writing** of the following:

- i. any excess opacity emission reports as measured by the COMS, postmarked on or before January 30, April 30, July 30, and October 30 of each calendar year for the preceding three-month period. If there are no excess emissions during the calendar quarter, the Permittee shall submit a report quarterly stating that no excess emissions occurred during the reporting period; and
- ii. 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 postmarked on or before July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

5. START-UP AND SHUTDOWN EMISSIONS

- a. Start-up emissions from the **thermal oil heaters (ID Nos. TOH-1 and TOH-2)** may be exhausted directly to the atmosphere. Pursuant to 40 CFR Part 60.11(d), the Permittee shall, to the extent practicable, maintain and operate the thermal oil heaters in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available, which may include monitoring results, opacity observations, review of the operating and maintenance procedures, and inspection results.
- b. Start-up and Shutdown emissions from the **bark burner (ID No. BARK1)** may be exhausted directly to the atmosphere. Pursuant to 15A NCAC 2D .0535, the Permittee shall, to the extent practicable, maintain and operate the bark burner in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available, which may include monitoring results, opacity observations, review of the operating and maintenance procedures, and inspection results. During periods of startup or shutdown, the facility will follow their written Plan, which includes:
 - i. each Plan event will be documented and recorded in a logbook (written or electronic format), including the date, time and duration;
 - ii. visible emission observations will be performed for each event exceeding 24 hours, then once every 12 hours and appropriate actions taken to ensure compliance with permit limits until the event has ended;
 - iii. the Plan will be revised as needed in order to incorporate "Best Management Practices" as appropriate and to ensure that all practical steps have been taken to minimize the impact of the excess emissions on air quality; and
 - iv. startup and shutdown reports shall be submitted any time an action taken by the Permittee during an "event" is not consistent with the procedures specified in the Plan, and the source exceeds any applicable emission limitation in the relevant emission standard. In accordance with Section 3 - General Conditions D. and I., the Permittee shall report the actions taken for that event within two working days after commencing actions inconsistent with the plan followed by a letter within seven working days after the end of the event. The startup and shutdown report shall consist of a telephone call (or facsimile (FAX) transmission) to the DAQ within two working days after commencing actions inconsistent with the Plan, and it shall be followed by a letter, postmarked within seven working days after the end of the event, signed by the responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup and shutdown plan, and describing all excess emissions and/or parameter monitoring exceedances which are believed to have occurred.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0535 if the Permittee has not taken the proper steps to minimize the impact on air quality; the Permittee cannot demonstrate that the excess emissions were unavoidable during startup and shutdown; or the Plan is not followed and the appropriate records are not maintained.

6. ALTERNATIVE OPERATING SCENARIOS [15A NCAC 2Q .0508(j)]

- a. The Permittee, contemporaneously with making a change from one alternate operating scenario to another while operating the thermal oil heaters (**ID Nos. TOH-1 and TOH-2**), shall record in a logbook (written or electronic format) the scenario under which it is operating. [15A NCAC 2Q .0508(j)]

7. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS for ALTERNATIVE OPERATING SCENARIOS [15A NCAC 2Q .0508(j)]

- a. Emissions of particulate matter from the combustion of natural gas that are discharged from the thermal oil heaters (**ID Nos. TOH-1 and TOH-2**) exhausting through their individual stacks into the atmosphere, while firing natural gas only, shall not exceed **0.35** pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 7. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

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

B. Two OSB press enclosure vents (ID Nos. PV-1 and PV-2) from one totally enclosed hot press board processing operation controlled by one regenerative thermal oxidizer (ID No. RTO-3)

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	properly designed collectors and adequate ductwork	15A NCAC 2D .0512
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Carbon monoxide	Less than 250 tons per year facility-wide (See Section 2.2-B. – Multiple Emission Sources)	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Nitrogen oxides		
Particulate matter		
PM-10		
Volatile organic compounds		
Volatile Organic Compounds	Work Practice Standards (See Section 2.2-A.1. – Multiple Emission Sources)	15A NCAC 2D .0958
Toxic air pollutants	Toxic air pollutant emissions shall not exceed rates which cause established ambient levels to be exceeded; State-enforceable only (See Section 2.2-A.2. – Multiple Emission Sources)	15A NCAC 2D .1100
Hazardous Air Pollutants	(See Section 2.2-D.1&2. – Multiple Emission Sources)	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Odors	Odorous Emissions; State-enforceable only (See Section 2.2-A.4. – Multiple Emission Sources)	15A NCAC 2D .1806

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	TAP assessment of facility wide sources due with permit application to comply with last applicable MACT (i.e., Subpart DDDD), excluding the Boiler MACT (Subpart DDDDD - Vacated); State Only Requirement	15A NCAC 2Q .0705
Toxic air pollutants	Control of Toxic Air Pollutants – emission rates requiring a permit; State Enforceable Only (See Section 2.2-A.3. – Multiple Emission Sources)	15A NCAC 2Q .0711

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 press vents shall be controlled by adequate ductwork and properly designed collectors. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
- monthly external 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 logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- the date and time of each recorded action;
 - the results of each inspection; and
 - the results of maintenance performed on the 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 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 .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)]

- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from the firing of natural gas or propane in this source.

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

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

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 B. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. 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 .0501(c)(8) is below the limit given in Section 2.1.B.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.

C. Wood product forming and finishing operations consisting of several group processes:

Sawtrim and finishing line clean-up (ID No. CP-001), blender and forming bin aspiration systems (ID No. CP-002), raw fuel bin transfer and loading system (ID Nos. CP-003 and CP-004), mat reject and flying saw system (ID No. CP-005), tongue and groove and sanderdust aspiration system (ID No. CP-006), sanderdust bin transfer and loading system (ID No. CP-007), and metering bin transfer and loading system (ID No. FUELPREP); controlled by seven bagfilters (ID Nos. B-1, B-2, B-3, B-5, B-6, B-7, and B-8) and six bypass cyclones (ID Nos. CYC1, CYC3, CYC5-1, CYC5-2, CYC6, and CYC8)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	adequate duct work and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate matter	Less than 250 tons per year facility-wide (See Section 2.2-B. – Multiple Emission Sources)	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
PM-10		
PM-10	Compliance assurance monitoring (CAM) (See Section 2.2-C. – Multiple Emission Sources)	15A NCAC 2D .0614 (40 CFR 64)
Toxic air pollutants	Toxic air pollutant emissions shall not exceed rates which cause established ambient levels to be exceeded; State-enforceable only (See Section 2.2-A.2. – Multiple Emission Sources)	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 wood product forming and finishing sources (**ID Nos. CP-001 through CP-007, and FUELPREP**) shall be controlled by seven bagfilters (**ID Nos. B-1, B-2, B-3, B-5, B-6, B-7, and B-8**) and six cyclones (**ID Nos. CYC1, CYC3, CYC5-1, CYC5-2, CYC6, and CYC8**). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
- monthly external inspection of the ductwork, cyclones and bagfilters noting the structural integrity; and
 - 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 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:
- 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 (**ID Nos. CP-001 through CP-007 and FUEL PREP**) 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 .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 C. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. If visible emissions from these sources (**ID Nos. CP-001 through CP-007 and FUELPREP**) 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 .0501(c)(8) is below the limit given in Section 2.1 C.2. a. above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

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

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

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

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

D. Diesel-fired emergency generator (ID No. ENG-1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 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 D. 1. 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, or reporting is required for sulfur dioxide emissions from diesel fuel combustion for this emergency generator.

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

- a. Visible emissions from this emergency generator (**ID No. ENG-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 .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 D. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in this emergency generator.

E. Bark Handling Fugitives (ID No. F-1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
None	No applicable standards	none

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

A. Facility-wide Emission Sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	work practice standards	15A NCAC 2D .0958
Toxic air pollutants	toxic air pollutant emissions shall not exceed rates which cause established ambient levels to be exceeded	15A NCAC 2D .1104 - State Enforceable Only
Toxic air pollutants	toxic air pollutant emissions shall not exceed the rates listed in 2Q .0711 unless ambient standards are not exceeded	15A NCAC 2Q .0711 - State Enforceable Only
Odorous emissions	adequate measures to minimize odorous emissions	15A NCAC 2D .1806 - State Enforceable Only

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

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

STATE ONLY TOXIC AIR POLLUTANT REQUIREMENT

- 2. **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 (approved on April 28, 2004), the following permit limits shall not be exceeded:

EMISSION SOURCE(S)	TOXIC AIR POLLUTANT(S)	EMISSION LIMIT(S)
RTO-1 and RTO-2 (combined) RTO-3	Acrolein	18.34 lbs/hr 2.22 lbs/hr
RTO-1 and RTO-2 (combined)	Arsenic	23.38 lbs/yr
RTO-1 and RTO-2 (combined) RTO-3 G-1 ¹	Benzene	6,331 lbs/yr 2,152 lbs/yr 332.8 lbs/yr
RTO-1 and RTO-2 (combined)	Chromium(VI)	6.78 lbs/yr
RTO-1 and RTO-2 (combined) RTO-3 CP-002 CP-003 and CP-004 PF-1 ¹ PF-2 ¹	Formaldehyde	4.66 lbs/hr 1.04 lbs/hr 2.67 lbs/hr 0.22 lb/hr 0.21 lb/hr 0.21 lb/hr
RTO-1 and RTO-2 (combined) RTO-3 CP-005 PF-1 ¹ PF-2 ¹	Phenol	15.06 lbs/hr 18.38 lbs/hr 0.02 lbs/hr 1.84 lb/hr 1.84 lb/hr

¹ Insignificant activities

- a. To ensure compliance with the above limits, the following restrictions shall apply:
 - i. Total chip drying shall be limited to 75 oven dried tons per hour (the dryer design limitation).
 - ii. Total OSB production shall be limited to 80,000 square feet (3/8 inch basis) per hour determined on a daily average.
- b. For compliance purposes, within 30 days after each calendar year quarter the following shall be reported to the Regional Supervisor, DAQ:
 - i. The total square feet of OSB production and total hours of operation while producing OSB for each day during the reporting quarter, and the highest hourly OSB production rate (based on a daily average) during the quarter.

STATE ONLY TOXIC AIR POLLUTANT REQUIREMENT

3. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION** - 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.

- a. 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.
- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D.1100 "Control of Toxic Air Pollutants".
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
acetaldehyde (75-07-0)				6.8
benzo(a)pyrene (50-32-8)	2.2			
beryllium (7440-41-7)	0.28			
cadmium (7440-43-9)	0.37			
carbon tetrachloride (56-23-5)	460			
chlorine (7782-50-5)		0.79		0.23
chlorobenzene (108-90-7)		46		
chloroform (67-66-3)	290			
di(2-ethylhexyl)phthalate (117-81-7)		0.63		

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
n-hexane (110-54-3)		23		
hydrogen chloride (7647-01-0)				0.18
manganese and compounds		0.63		
mercury, aryl and inorganic compounds		0.013		
methyl chloroform (71-55-6)		250		64
methyl ethyl ketone (78-93-3)		78		22.4
methyl isobutyl ketone (108-10-1)		52		7.6
methylene chloride (75-09-2)	1600			
pentachlorophenol (87-86-5)		0.063	0.0064	
perchloroethylene (127-18-4)	13000			
styrene (100-42-5)			2.7	
2,3,7,8- tetrachlorodibenzo-p- dioxin (1746-01-6)	0.00020			
toluene (108-88-3)		98		14.4
trichloroethylene (79-01-6)	4000			
vinyl chloride (75-01-4)	26			
xylene (1330-20-7)		57		16.4

STATE-ONLY REQUIREMENT: ODOR REQUIREMENTS

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

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

4. 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. Limits to avoid Prevention of Significant Deterioration (PSD)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Carbon monoxide (CO)	less than 250 tons per year	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Nitrogen oxides (NO _x)	less than 250 tons per year	
Particulate matter (PM)	less than 250 tons per year	
PM-10	less than 250 tons per year	
Volatile organic compounds (VOC)	less than 250 tons per year	

1. **15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for
15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION AND
15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING [2D .0614(b)(1)(E) for VOC**
 - a. In order to avoid applicability of this regulation, 15A NCAC 2D .0530(g), facility-wide emission sources shall discharge into the atmosphere less than 250 tons of carbon monoxide (CO), nitrogen oxides (NO_x), particulate matter (PM), PM-10, and volatile organic compounds (VOC), per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2D .0501(c)(3)]
 - b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .0501 and General Condition JJ found in Section 3. If the results of this test are above the limits given in Section 2.2-B.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
 - c. Under the provisions of NCGS 143-215.108, the Permittee shall conduct a performance test to establish the appropriate mass emission rates from all affected sources controlled by thermal oxidizers (ID Nos. RTO-1, RTO-2 and RTO-3); as well as the proper operating temperatures, capture efficiency, and destruction efficiency of the capture and control devices in accordance with a testing protocol approved by the DAQ. Total VOC mass means expressing VOC as propane and requiring individual measurements of methanol and formaldehyde as specified in EPA's Interim VOC Measurement Protocol for the Wood Products Industry – July 2007, referred to as WPP1 VOC (Wood Products Protocol 1 VOC). Particulate measurements are to include both filterables and condensables utilizing EPA Method 5/202. Details of the emissions testing and requirements can be found in Section 3 - General Condition JJ. **Testing shall be completed within 180 days of permit issuance, unless an alternate date is approved by the DAQ.**
 - i. Periodic testing of the oxidizers shall be conducted once every 5 years. If the results of this test are above the limits given in Sections 2.2-B. above for VOC emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 and 15A NCAC 2D .0614.
 - d. Upon receipt of an approved test that demonstrates different mass emissions rate, operating parameters, or overall destruction efficiency, the Permittee must request that the parameters be changed administratively within 60 days of approved test results.

Production/Operational Limits [15A NCAC 2Q .0508(f)]
 - e. In order to ensure compliance with the avoidance limit above, the following operational limits shall apply:
 - i. the Permittee shall limit total press production to **580 million square feet of finished product on a 3/8 inch basis** per consecutive 12-month period. The Permittee shall maintain monthly records of the total amount of oriented strand board (OSB) produced in a logbook (written or electronic format). The total press production shall be calculated as follows:

$$\sum_{(i=1,n)} P_{ai} \times T_i^{3/8} = P_t$$

Where:

P_{ai} = actual gross surface footage (MSF) for different thickness

T_i = actual thickness (inch) for specific production run

P_t = total normalized production at 3/8 inch

- ii. the Permittee shall limit the total hours of operation of the diesel-fired emergency generator to 400 hours of operation per consecutive 12-month period.

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

- f. In order to ensure compliance with the avoidance limit above and ensure proper operation of the oxidizers, the Permittee shall monitor the chamber temperature of each regenerative thermal oxidizer (RTO) continuously. The Permittee shall maintain a 3-hour block average chamber temperature at or above the temperatures listed in the following table for each thermal oxidizer (ID Nos. RTO-1, RTO-2, RTO-3):

Control Device ID No.	Minimum Temperature (°F)
RTO-1	1530
RTO-2	1530
RTO-3	1500

- g. The Permittee shall record and maintain records of the hours of operation of the oxidizers and emergency generator.
- h. Each calendar month, the Permittee shall calculate the VOC emissions for the previous month and the previous 12-month period to ensure compliance with Section 2.2-B.1.a. above. Monthly VOC emissions, in tons, shall be calculated as follows:
 - i. Consistent with Section 3 – General Condition LL., VOC emissions shall be determined by the following equations and emission factors until performance testing as required by Specific Condition 2.2-B.1.c. is approved:

$$E_{VOC\text{Total}} = \sum E_{VOC\text{RTO}} + \sum E_{VOC\text{BH}} + \sum E_{VOC\text{Misc}} + \sum E_{VOC\text{Bypass}}$$

$$E_{VOC\text{RTO}} = [((\text{controlled pound (lb) per hour (hr) emission rate}) \times (\text{hours RTO is deemed "in operation"})) + (\text{uncontrolled lb/hr emission rate}) \times (\text{hours RTO is not operated or is deemed "not in operation"})] \times (1 \text{ ton} / 2000 \text{ lbs}) \times [(P_{\text{Actual on 3/8" basis}}) / (P_{\text{Tested on 3/8" basis}})]$$

$$= [(X_c \times t_{\text{RTO}}) + (X_{uc} \times t_{\text{WORTO}})] \times 1/2000 \times [(P_{\text{Actual on 3/8" basis}}) / (P_{\text{Tested on 3/8" basis}})]$$

- Where:
- $E_{VOC\text{Total}}$ = the total VOC emissions from the affected sources, controlled and uncontrolled
 - $E_{VOC\text{RTO}}$ = number of tons of VOC emissions per month from sources controlled by RTO
 - X_c = pounds of VOC per hour (RTO emission rate based interim emission factors (lb/hr) as measured on an “as carbon” basis adjusted using historical speciated testing data and M25A testing data to correct VOC emissions as per EPA’s Interim VOC Measurement Protocol for the Wood Products Industry – July 2007 referred to as “WPP1 VOC” (Wood Products Protocol 1 VOC)
 - t_{RTO} = hours per month when oxidizer is not bypassed and oxidizer temperature is greater than or equal to the hourly block average temperature specified in Specific Condition 2.2-B.1.f.
 - X_{uc} = pounds of VOC per hour assuming no VOC control (back calculate assuming 95% VOC control efficiency based on Modernization Project, [$X_c / (1 - CE_{\text{RTO}})$])

t_{WORTO} = hours per month when oxidizer is bypassed or hourly periods when the oxidizer temperature is less than the hourly block average temperature specified in Specific Condition 2.2-B.1.f. including hourly periods of start-up, shutdown, and malfunction.

P_{Actual} = **Actual Production converted to 3/8" basis (monthly average)**

P_{Tested} = **Tested Production converted to 3/8" basis (tested average)**

E_{VOCBH} = number of tons of VOC emissions per month from sources exhausted through baghouses using interim emission factors (lb/hr) as measured on an "as carbon" basis adjusted using the EPA's Interim VOC Measurement Protocol for the Wood Products Industry – July 2007 referred to as "WPP1 VOC" (Wood Products Protocol 1 VOC). Adjustments for baghouses B2, B3 and B8 will be based on NCASI data submitted to DAQ on 2/25/2008 and NCASI Technical Bulletin #772. Adjustments for the remaining baghouses, baghouses other than B2, B3 and B8; will be determined using Methanol and Formaldehyde emission rates averaged for B3 and B8 from NCASI.

$E_{VOCMisc}$ = number of tons of VOC emissions per month from miscellaneous sources

$E_{VOCBypass}$ = number of tons of VOC emissions per month from each source bypassing the control device, calculated on a per source basis using emission factors (lb/hr) as specified below times the hours each bypass occurred

Emission Source(s) (ID No(s).)	Emission Factor	Control Device	Basis
Wafer Drying Process:	5.1 lb/hr as C, controlled	RTO-1	April 2006 Engineering Test Results
Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	1.8 lb/hr as C, controlled	RTO-2	
Bark Burner (BARK1) during "Idle/Standby" Mode	0.385 lb/hr as C	Bypassed	AP-42, Table 1.6-3 Dry Wood Basis
Dryer "Bypass" Mode (D-1 through D-5 each)	27.6 lb/hr as C	Bypassed	April 2006 Engineering Test Results – combine RTO-1 and RTO-2 outlet, back calculate assuming 95% CE; divide by 5 for a per dryer emission rate
OSB Presses (PV-1 and PV-2)	0.3 lb/hr as C, controlled	RTO-3	January 2005 stack test approval memo dated July 18, 2005
Forming and Finishing processes exhausted through baghouses CP-001 w/ B-1 & CYC-1 CP-002 w/ B-2 CP-003 & CP-004 w/ B-3 & CYC-3 CP-005 w/ B-5 & CYC-5 CP-006 w/ B-6 & CYC-6 CP-007 w/ B-7 FuelPrep w/ B-8 & CYC-8	1.87 lb/hr as C 5.59 lb/hr as C 1.85 lb/hr as C 1.57 lb/hr as C 1.21 lb/hr as C 0.02 lb/hr as C 3.77 lb/hr as C	N/A	April 1998 stack test data as provided in permit application and 8/10/2007 response letter signed by LP's Responsible Official for B-1, B-5, B-6, & B-7 and NCASI Tech. Bulletin #772 Oct 1998 for B-2, B-3, & B-8
Miscellaneous Sources: Edgeséal Operations Printing Operations Emergency Generator	0.00264 lb/gal 0.061 lb/gal 0.000705 lb/hp-hr as CH ₄	N/A	MSDS Data as provided in <u>Application (5/2007)</u> AP-42, Table 3.4-1

- ii. When the oxidizers are operated at temperatures below the specified temperatures listed in Section 2.2-B.1.a. above for the thermal oxidizers (ID Nos. RTO-1, RTO-2, RTO-3) or if the temperatures are not monitored, the oxidizers shall be deemed “not in operation” and the VOC emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.h.i. above.
- iii. When the oxidizers are not in operation or “deemed not in operation”, the VOC emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.h.i. above.
- iv. Consecutive 12-month rolling VOC emissions, in tons, shall be calculated by summing the monthly emissions as determined above, for the previous 12-month period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly VOC emissions are not monitored, calculated and/or if the VOC emissions exceed the limit given in Specific Condition 2.2-B.1.a. above.

- i. Each calendar month, the Permittee shall calculate the PM and PM10 emissions for the previous month and the previous 12-month period to ensure compliance with Section 2.2-B.1.a. above. Monthly PM and PM10 emissions, in tons, shall be calculated as follows:
 - i. Consistent with Section 3 – General Condition LL., PM and PM10 emissions shall be determined by the following equations and emission factors until performance testing as required by Specific Condition 2.2-B.1.c. is approved:

$$E_{PM/PM10Total} = \sum E_{PM/PM10RTO} + \sum E_{PM/PM10BH} + \sum E_{PM/PM10Misc} + \sum E_{PM/PM10Bypass}$$

$$E_{PM/PM10RTO} = [((\text{controlled pound (lb) per hour (hr) emission rate}) \times (\text{hours RTO is deemed “in operation”}) + (\text{uncontrolled lb/hr emission rate}) \times (\text{hours RTO is not operated or is deemed “not in operation”})) \times (1 \text{ ton} / 2000 \text{ lbs})] \times [(P_{Actual \text{ on } 3/8'' \text{ basis}}) / (P_{Tested \text{ on } 3/8'' \text{ basis}})]$$

$$= [(X_c \times t_{RTO}) + (X_{uc} \times t_{WORTO})] \times 1/2000 \times [(P_{Actual \text{ on } 3/8'' \text{ basis}}) / (P_{Tested \text{ on } 3/8'' \text{ basis}})]$$

$$E_{PM/PM10BH} = [(X_c \times t_{BH}) + (X_{uc} \times t_{WOBH})] \times 1/2000$$

- Where: $E_{PM/PM10Total}$ = the total PM/PM10 emissions from the affected sources, controlled and uncontrolled
- $E_{PM/PM10RTO}$ = number of tons of PM/PM10 emissions per month from sources controlled by RTO
- X_c = pounds of PM/PM10 per hour (controlled emission rate based interim emission factors (lb/hr)
- t_{RTO} = hours per month when oxidizer is not bypassed and oxidizer temperature is greater than or equal to the hourly block average temperature specified in Specific Condition 2.2-B.1.f.
- t_{BH} = hours per month when emissions are routed to baghouse
- X_{uc} = pounds of PM/PM10 per hour assuming no PM/PM10 control (back calculate assuming 80% PM/PM10 control efficiency from WESP (*prior to RTO-1 and RTO-2 only*) and 66% PM/PM10 control efficiency from RTO based on Modernization Project, $[X_c / (1 - CE_{RTO})] / (1 - CE_{WESP})$ or assuming 99.9% PM/PM10 control efficiency from Baghouses, $X_c / (1 - CE_{BH})$
 $CE_{WESP} = 0\%$ PM/PM10 control efficiency for RTO-3 or if WESP is bypassed
- t_{WORTO} = hours per month when oxidizer is bypassed or hourly periods when the oxidizer temperature is less than the hourly block average temperature specified in Specific Condition 2.2-B.1.f. including hourly periods of start-up, shutdown, and malfunction.
- t_{WOBH} = hours per month when emissions are not routed to baghouse
- P_{Actual} = **Actual Production converted to 3/8” basis (monthly average)**
- P_{Tested} = **Tested Production converted to 3/8” basis (tested average)**
- $E_{PM/PM10BH}$ = number of tons of PM/PM10 emissions per month from sources controlled by baghouses using emission factors (lb/hr) and assuming control efficiency of 99.9%

$E_{PM/PM10Misc}$ = number of tons of PM/PM10 emissions per month from miscellaneous sources

$E_{PM/PM10Bypass}$ = number of tons of PM/PM10 emissions per month from each source bypassing the control device, calculated on a per source basis using emission factors (lb/hr) as specified below times the hours each bypass occurred

Emission Source(s) (ID No(s).)	Emission Factor*	Control Device	Basis
Wafer Drying Process consisting of: Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	2.15 lb/hr, controlled	WESP/RTO-1	April 2006 Engineering Test Results
	1.61 lb/hr, controlled	WESP/RTO-2	
Bark Burner (BARK1) during "Idle/Standby" Mode	9.05 lb/hr PM 8.14 lb/hr PM10	Bypassed	AP-42, Table 1.6-1 Dry Wood Basis
Dryer "Bypass" Mode (D-1 through D-5 each)	11.1 lb/hr as C	Bypassed	April 2006 Engineering Test Results – combine RTO-1 and RTO-2 outlet, back calculate assuming 66% CE for RTO & 80% CE for WESP; divide by 5 for a per dryer emission rate
OSB Presses (PV-1 and PV-2)	6.3 lb/hr, controlled	RTO-3	January 2005 stack test approval memo dated July 18, 2005
Forming and Finishing processes exhausted through baghouses CP-001 w/ B-1 & CYC-1 CP-002 w/ B-2 CP-003 & CP-004 w/ B-3 & CYC-3 CP-005 w/ B-5 & CYC-5 CP-006 w/ B-6 & CYC-6 CP-007 w/ B-7 FuelPrep w/ B-8 & CYC-8	1.18 lb/hr 0.58 lb/hr 0.59 lb/hr 0.13 lb/hr 1.06 lb/hr 0.02 lb/hr 0.66 lb/hr controlled	Baghouse B-1 B-2 B-3 B-5 B-6 B-7 B-8	1 st Quarter 2006 emissions calculation spreadsheet data based on exit grain loading concentrations obtained by MidSouth Engineering, design flow rates and an assumed control efficiency of 99.9% per 8/10/2007 response letter signed by LP's Responsible Official
Miscellaneous Sources: Edgeseal Operations	0.0125 lb/gal	N/A	MSDS Data as provided in Application (5/2007)
Emergency Generator	0.0007 lb/hp-hr		AP-42, Table 3.4-1

*It is assumed that PM = PM10

- ii. When the oxidizers are operated at temperatures below the specified temperatures listed in Section 2.2-B.1.a. above for the thermal oxidizers (ID Nos. RTO-1, RTO-2, RTO-3) or if the temperatures are not monitored, the oxidizers shall be deemed "not in operation" and the PM/PM10 emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.i.i. above.
- iii. When the oxidizers are not in operation or "deemed not in operation", the PM/PM10 emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.i.i. above.

iv. Consecutive 12-month rolling PM and PM10 emissions, in tons, shall be calculated by summing the monthly emissions as determined above, for the previous 12-month period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly PM and PM10 emissions are not monitored, calculated and/or if the PM and PM10 emissions exceed the limit given in Specific Condition 2.2-B.1.a. above.

j. Each calendar month, the Permittee shall calculate the CO emissions for the previous month and the previous 12-month period to ensure compliance with Section 2.2-B.1.a. above. Monthly CO emissions, in tons, shall be calculated as follows:

i. Consistent with Section 3 – General Condition LL., CO emissions shall be determined by the following equations and emission factors until performance testing as required by Specific Condition 2.2-B.1.c. is approved:

$$E_{CO_{Total}} = \sum E_{CO_{RTO}} + \sum E_{CO_{Misc}} + \sum E_{CO_{Bypass}}$$

$$E_{CO_{RTO}} = [((\text{pound (lb) per hour (hr) emission rate at RTO outlet}) \times (\text{hours RTO is deemed "in operation"})) + (\text{lb/hr emission rate when RTO is bypassed}) \times (\text{hours RTO is not operated or is deemed "not in operation"}))] \times (1 \text{ ton} / 2000 \text{ lbs}) \times [(P_{Actual} \text{ on } 3/8" \text{ basis}) / (P_{Tested} \text{ on } 3/8" \text{ basis})]$$

$$= [((X_c \times t_{RTO}) + (X_{uc} \times t_{WORTO})) \times 1/2000] \times [(P_{Actual} \text{ on } 3/8" \text{ basis}) / (P_{Tested} \text{ on } 3/8" \text{ basis})]$$

Where: $E_{CO_{Total}}$ = the total CO emissions from the affected sources
 X_c = pounds of CO per hour (RTO outlet emission rate based interim emission factors (lb/hr)
 t_{RTO} = hours per month when oxidizer is not bypassed and oxidizer temperature is greater than or equal to the hourly block average temperature specified in Specific Condition 2.2-B.1.f.
 X_{uc} = pounds of CO per hour when the oxidizer is bypassed or an excursion has occurred or is deemed “not in operation”
 t_{WORTO} = hours per month when oxidizer is bypassed or hourly periods when the oxidizer temperature is less than the hourly block average temperature specified in Specific Condition 2.2-B.1.f. including hourly periods of start-up, shutdown, and malfunction.
 P_{Actual} = **Actual Production converted to 3/8” basis (monthly average)**
 P_{Tested} = **Tested Production converted to 3/8” basis (tested average)**
 $E_{CO_{Bypass}}$ = number of tons of CO emissions per month from each source bypassing the control device, calculated on a per source basis using emission factors (lb/hr) as specified below times the hours each bypass occurred

Emission Source(s) (ID No(s).)	Emission Factor	Control Device	Basis
Wafer Drying Process consisting of: Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	9.4 lb/hr	RTO-1 outlet	April 2006 Engineering Test Results
	3.1 lb/hr	RTO-2 outlet	
Bark Burner (BARK1) during “Idle/Standby” Mode	13.58 lb/hr	Bypassed	AP-42, Table 1.6-2 Dry Wood Basis
OSB Presses (PV-1 and PV-2)	0.2 lb/hr	RTO-3 outlet	January 2005 stack test approval memo dated July 18, 2005

Emission Source(s) (ID No(s).)	Emission Factor	Control Device	Basis
Wafer Drying Process consisting of: Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	198.2 lb/hr	Bypassed WESP outlet	April 2006 Engineering Test Results
OSB Presses (PV-1 and PV-2)	14.7 lb/hr	Bypassed	1 st Quarter 2006 emissions calculation spreadsheet data
Miscellaneous Sources: Emergency Generator	0.0055 lb/hp-hr	N/A	AP-42, Table 3.4-1

- ii. When the oxidizers are operated at temperatures below the specified temperatures listed in Section 2.2-B.1.a. above for the thermal oxidizers (ID Nos. RTO-1, RTO-2, RTO-3) or if the temperatures are not monitored, the oxidizers shall be deemed “not in operation” and the CO emissions shall be determined using the uncontrolled or bypassed emissions rates specified in Specific Condition 2.2-B.j.i. above.
- iii. When the oxidizers are not in operation, bypassed or “deemed not in operation”, the CO emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.j.i. above.
- iv. Consecutive 12-month rolling CO emissions, in tons, shall be calculated by summing the monthly emissions as determined above, for the previous 12-month period.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly CO emissions are not monitored, calculated and/or if the CO emissions exceed the limit given in Specific Condition 2.2-B.1.a. above.
- k. Each calendar month, the Permittee shall calculate the NOx emissions for the previous month and the previous 12-month period to ensure compliance with Section 2.2-B.1.a. above. Monthly NOx emissions, in tons, shall be calculated as follows:
- i. Consistent with Section 3 – General Condition LL., NOx emissions shall be determined by the following equations and emission factors until performance testing as required by Specific Condition 2.2-B.1.c. is approved:

$$E_{NOxTotal} = \sum E_{NOxRTO} + \sum E_{NOxMisc} + \sum E_{NOxBypass}$$

$$E_{NOxRTO} = [((\text{pound (lb) per hour (hr) emission rate at RTO outlet}) \times (\text{hours RTO is deemed “in operation”}) + (\text{lb/hr emission rate when RTO is bypassed}) \times (\text{hours RTO is not operated or is deemed “not in operation”})) \times (1 \text{ ton} / 2000 \text{ lbs})] \times [(P_{Actual} \text{ on } 3/8'' \text{ basis}) / (P_{Tested} \text{ on } 3/8'' \text{ basis})]$$

$$= [((X_c \times t_{RTO}) + (X_{uc} \times t_{WORTO})) \times 1/2000] \times [(P_{Actual} \text{ on } 3/8'' \text{ basis}) / (P_{Tested} \text{ on } 3/8'' \text{ basis})]$$

- Where:
- $E_{NOxTotal}$ = the total NOx emissions from the affected sources
- X_c = pounds of NOx per hour (RTO outlet emission rate based interim emission factors (lb/hr))
- t_{RTO} = hours per month when oxidizer is not bypassed and oxidizer temperature is greater than or equal to the hourly block average temperature specified in Specific Condition 2.2-B.1.f.
- X_{uc} = pounds of NOx per hour when the oxidizer is bypassed or an excursion has occurred or is deemed “not in operation”
- t_{WORTO} = hours per month when oxidizer is bypassed or hourly periods when the oxidizer temperature is less than the hourly block average temperature specified in Specific Condition 2.2-B.1.f. including hourly periods of start-up, shutdown, and malfunction.
- P_{Actual} = **Actual Production converted to 3/8” basis (monthly average)**

P_{Tested} = Tested Production converted to 3/8" basis (tested average)

$E_{\text{NOxByPass}}$ = number of tons of NOx emissions per month from each source bypassing the control device, calculated on a per source basis using emission factors (lb/hr) as specified below times the hours each bypass occurred

Emission Source(s) (ID No(s).)	Emission Factor	Control Device	Basis
Wafer Drying Process consisting of: Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	11.7 lb/hr	RTO-1 outlet	April 2006 Engineering Test Results
	11.3 lb/hr	RTO-2 outlet	
Bark Burner (BARK1) during "Idle/Standby" Mode	11.09 lb/hr	Bypassed	AP-42, Table 1.6-2 Dry Wood Basis
OSB Presses (PV-1 and PV-2)	4.6 lb/hr	RTO-3 outlet	January 2005 stack test approval memo dated July 18, 2005
Wafer Drying Process consisting of: Bark Burner (BARK1), Dryers (D-1 through D-5), and Thermal Oil Heaters (TOH-1 and TOH-2)	12.5 lb/hr	Bypassed WESP outlet	April 2006 Engineering Test Results
OSB Presses (PV-1 and PV-2)	82 lb/hr	Bypassed	1 st Quarter 2006 emissions calculation spreadsheet data
Miscellaneous Sources: Emergency Generator	0.024 lb/hp-hr	N/A	AP-42, Table 3.4-1

- ii. When the oxidizers are operated at temperatures below the specified temperatures listed in Section 2.2-B.1.a. above for the thermal oxidizers (ID Nos. RTO-1, RTO-2, RTO-3) or if the temperatures are not monitored, the oxidizers shall be deemed "not in operation" and the NOx emissions shall be determined using the uncontrolled or bypassed emissions rates specified in Specific Condition 2.2-B.k.i. above.
 - iii. When the oxidizers are not in operation, bypassed or "deemed not in operation", the NOx emissions shall be determined using the uncontrolled emissions rates specified in Specific Condition 2.2-B.k.i. above.
 - iv. Consecutive 12-month rolling NOx emissions, in tons, shall be calculated by summing the monthly emissions as determined above, for the previous 12-month period.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly NOx emissions are not monitored, calculated and/or if the NOx emissions exceed the limit given in Specific Condition 2.2-B.1.a. above.
1. To assure compliance with the provisions of this permit and ensure that emissions do not exceed the regulatory limits specified in Section 2.2-B.1.a. above, the Permittee shall perform periodic inspection and maintenance (I&M) on the oxidizers as recommended by the manufacturer, if any. In addition to the manufacturer's inspection and maintenance recommendations, as a minimum, the inspections and maintenance shall include the following:
 - i. a monthly external inspection of the structural integrity of the oxidizers;
 - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the oxidizers' primary components, including the heat exchanger and valves, to ensure structural integrity; and
 - iii. an annual (for each 12 month period following the initial inspection) inspection of the burner.
The oxidizer shall be deemed not in operation and the emissions shall be determined as specified above, if the oxidizer is not inspected and maintained.

- m. The results of inspection and maintenance for the oxidizers shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on any of the oxidizers; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

- n. The Permittee shall record:
 - i. the monthly press production rate on a 3/8" basis;
 - ii. the monthly hours of operation for the diesel generator;
 - iii. the monthly calculations and the total amount of VOC emissions;
 - iv. the monthly calculations and the total amount of PM emissions;
 - v. the monthly calculations and the total amount of PM-10 emissions;
 - vi. the monthly calculations and the total amount of CO emissions; and
 - vii. the monthly calculations and the total amount of NOx emissions;The above records shall be recorded monthly in a logbook (written or electronic format), maintained on-site and made available to officials of the Division of Air Quality (DAQ), upon request. The Permittee must keep each entry in the log and all required records on file for a minimum of five years. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not recorded monthly in a logbook (written or electronic format), kept on-site and made available to DAQ personnel upon request.

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

- o. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. the monthly press production rate for the previous 17 months;
 - ii. the monthly hours of operation for the diesel generator for the previous 17 months;
 - iii. the monthly carbon monoxide, nitrogen oxides, particulate matter, PM-10, and volatile organic compounds emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months, and
 - iv. All instances of deviations from the requirements of this permit must be clearly identified.

C. 15A NCAC 2D .0614 COMPLIANCE ASSURANCE MONITORING

1. Wafer drying process - BARK Burner (ID No. Bark1), Rotary Dryers (ID Nos. D1 through D5), and Thermal Oil Heaters (ID Nos. TOH-1 and TOH-2) and associated cyclones (ID Nos. PCYCD-1 through PCYCD-5)

- a. Pursuant to 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following:
- b. **Background**
- i. Emission unit: wafer drying process (ID Nos. BARK1, TOH-1 and TOH-2, and D1 through D5)
 - ii. Applicable regulations: 15A NCAC 2D .0515, and .0521

Emissions limits: particulates from miscellaneous industrial process (2D .0515, particulate matter)
20 percent opacity (2D .0521, visible emissions)

Control technology: cyclones (ID Nos. PCYCD-1 through PCYCD-5)

- iii. Monitoring Approach: The key elements of the monitoring approach for particulate matter, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Indicator [64.6(c)(1)(i)]	Indicator No. 1
Measurement Approach [64.6(c)(1)(ii)]	Visible emissions from the cyclones outlet will be monitored daily using reference method 22-like procedures when the WESPs and RTO-1 or RTO-2 are bypassed for more than twelve (12) hours
Indicator Range [64.6(c)(2)]	An excursion is defined as the presence of visible emissions. Excursions trigger an inspection and corrective action
Bypass [64.3(a)(2)]	
QIP threshold [64.8]	Visible emissions greater than 0% opacity for more than 30 minutes
Performance Criteria	
A. Data Representativeness [64.6(c)(1)(iii)]	Measurements are being made at the emission point (cyclone outlet)
B. Verification of Operational Status [64.3(b)(1)]	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	The observer will be familiar with Method 22 and follow Method 22-like procedures
D. Monitoring frequency [64.3(b)(4)]	A six-minute Method 22-like observation is performed daily.
Data collection procedure [64.3(b)(4)]	The visible emission observation is documented by the observer.
Averaging period	N/A

Indicator [64.6(c)(1)(i)]	Indicator No. 1
Recordkeeping and reporting [64.9]	<p>Keep records of: excursion reports and corrective actions, visible emissions logs.</p> <p>Quarterly reports include:</p> <p>Investigative and corrective action report,</p> <p>Date, time, and duration of excursion</p> <p>Cause of and corrective actions to eliminate excursion, and</p> <p>Measures taken to prevent re-occurrence</p> <p>A description of the actions taken to implement a QIP (as applicable)</p>

c. **Background**

- i. Emission unit: wafer drying process (**ID Nos. BARK1, TOH-1 and TOH-2, and D1 through D5**)
- ii. Applicable regulations: 15A NCAC 2D .0515, .0521, .0524, and 2Q .0317

Emissions limits: particulates from miscellaneous industrial process (2D .0515, particulate matter)
 20 percent opacity (2D .0521, visible emissions)
 NSPS Subpart Dc (2D .0524, particulate matter and visible emissions)

Control technology: wet electrostatic precipitators (**ID Nos. WESP-1 and WESP-2**) and regenerative thermal oxidizers (**ID Nos. RTO-1 and RTO-2**)

- iii. Monitoring Approach: The key elements of the monitoring approach for particulate matter, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Indicator [64.6(c)(1)(i)]	Indicator No. 1
I. Indicator Measurement Approach	<p>Visible emissions</p> <p>Visible emissions from the wafer drying process will be monitored continuously using a continuous opacity monitoring (COM) system on the common stack (RTO outlet).</p>
II. Indicator Range QIP Threshold	<p>An excursion is defined as visible emissions in amounts greater than 12% (six-minute average). Excursions trigger an inspection, corrective action, and a reporting requirement.</p> <p>The QIP threshold is six excursions in a six-month reporting period.</p>

Indicator [64.6(c)(1)(i)]	Indicator No. 1
III. Performance Criteria	
A. Data Representativeness	Measurements are being made at the emission point (RTO outlet) of the common stack
B. Verification of Operational Status	NA
C. QA/QC Practices	The COM systems shall be calibrated, maintained and operated according to 40 CFR 60, Appendix B, Performance Specifications (PS1) and Appendix F, Quality Assurance Procedures.
D. Monitoring Frequency	Data is collected continuously with the COM system.
E. Data Collection Procedures	Data from the COM system is collected electronically and maintained on the data acquisition and handling system computer along with information on the operating status of the thermal oil heaters. Alternatively, a suitable data recorder, including an analog strip chart recorder may be used, provided the specifications in PS-1 are met.
F. Averaging Periods	NA

iv. **Reporting**

- A. 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 summary report shall include the following elements:
 - 1. summary information on the number, duration and cause (or if the cause is unknown, a statement to that effect) of excursions or exceedances, as applicable, and the corrective actions taken;
 - 2. summary information on the number, duration and cause (or if the cause is unknown, a statement to that effect) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - 3. a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in 40 CFR 64.8, as applicable.

2. Wood product forming and finishing operations (ID Nos. CP-001 through CP-007, and FUELPREP)

- a. Pursuant to 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following.
- b. **Background**
 - i. Emission unit: wood product forming and finishing operations (ID Nos. CP-001 through CP-007, and FUELPREP)
 - ii. Applicable regulations: 15A NCAC 2D .0512 and .0521

Emissions limits: properly designed collectors (2D .0512, particulate matter)
20 percent opacity (2D .0521, visible emissions)

Control technology: pulse-jet bagfilters (ID Nos. B-1 through B-3 and B-5 through B-8)
cyclones (ID Nos. CYC1, CYC3, CYC5-1 & CYC5-2, CYC6 and CYC8)
 - iii. Monitoring Approach The key elements of the monitoring approach are presented in the following table

Indicator [64.6(c)(1)(i)]	Indicator No. 1 – Visible emissions	Indicator No. 2 - Pressure drop
Measurement Approach [64.6(c)(1)(ii)]	Visible emissions from the bagfilter and/or cyclone exhaust will be monitored daily using reference method 22-like procedures	Pressure drop (ΔP) across the bagfilter is measured with 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 a pressure drop greater than 8.0" H ₂ O or less than 0.1" H ₂ O.
QIP threshold [64.8]	Visible emissions greater than 0% opacity for more than 30 minutes	Instantaneous ΔP readings outside range 3 times within a six-month period
Performance Criteria, Data Representativeness [64.6(c)(1)(iii)]	Measurements are being made at the emission point (bagfilter and/or cyclone exhaust)	Pressure taps are located at the bagfilter inlet and outlet. The gauge has an indicator range from 0.1 to 12.0 inches of water. The actual temperature of the monitored exhaust will vary depending on seasonal changes, filter maximum operating temperature, 150 degrees F.
Verification of Operational Status [64.3(b)(1)]	N/A	N/A
QA/QC Practices and Criteria [64.3(b)(3)]	The observer will be familiar with Method 22 and follow Method 22-like procedures	Proper operation of the pressure gauge is checked semi-annually.
Monitoring frequency [64.3(b)(4)]	A six-minute Method 22-like observation is performed daily.	ΔP is monitored continuously while the bagfilter is in operation.
Data collection procedure [64.3(b)(4)]	The visible emission observation is documented by the observer.	ΔP is manually recorded daily, at least once per shift.
Averaging period	N/A	N/A
Recordkeeping and reporting [64.9]	<p>Keep records of: excursion reports and corrective actions, visible emissions logs.</p> <p>Quarterly reports include:</p> <p>Investigative and corrective action report,</p> <p>Date, time, and duration of excursion</p> <p>Cause of and corrective actions to eliminate excursion, and</p> <p>Measures taken to prevent re-occurrence</p> <p>A description of the actions taken to implement a QIP (as applicable)</p>	<p>Keep records of: excursion reports and corrective actions, I&M logs for ΔP monitoring and recording system, bagfilter inspection and maintenance reports</p> <p>Quarterly reports include:</p> <p>Investigative and corrective action report,</p> <p>Date, time, and duration of excursion</p> <p>Cause of and corrective actions to eliminate excursion, and</p> <p>Measures taken to prevent re-occurrence</p> <p>A description of the actions taken to implement a QIP (as applicable)</p>

D. Facility-wide emission sources for existing MACT affected sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
HAP	Plywood and Composite Wood Products Manufacture MACT	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
TAP	TAP assessment of facility wide sources not defined as wood furniture manufacturing operations in 40 CFR 63.801(a) due with permit application to comply with last applicable MACT (i.e., Subpart DDDD). State Only Requirement	15A NCAC 2Q. 0705

1. 15A NCAC 2D .1111 [40 CFR Part 63 Subpart DDDD]: National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products Manufacture

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, 2007** for existing affected source(s) as per 40 CFR 63.2233 or as amended by the rule or as extended by compliance extension request.

As per response letter dated **August 24, 2007** from Mr. Lee A. Daniel, Chief, Technical Services Branch:

- A. the Permittee's compliance extension request qualifies as a late submittal as per 40 CFR 63.6(i)(4)(i)(C); and
- B. the new compliance date shall be **October 1, 2008**; however, failure to meet the prescribed milestones, specified therein by the DAQ and as provided by 40 CFR 63.6(i)(14), may terminate the compliance extension.

2. 15A NCAC 2Q .0705: Existing Facilities and SIC Calls

In accordance with 15 A NCAC 2Q .0705, for sources at a facility subject to a MACT standard, the Permittee shall submit a permit application that includes an evaluation for all toxic air pollutants covered under 15A NCAC 2D .1104 for all sources at the facility, excluding those sources exempt from evaluation under 15A NCAC 2Q .0702. The Permittee shall comply with 15A NCAC 2D .1100 by the same deadline that it is required to comply with the last MACT applicable to the facility (for existing affected source(s) subject to 40 CFR 63, Subpart DDDD, the deadline for submittal is by **October 1, 2007** or as amended by the rule or as extended by compliance extension request.)

SECTION 3 - GENERAL CONDITIONS

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 NO_x 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(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(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