



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

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
B. Keith Overcash, P.E., Director

September 17, 2007

Mr. Mack Burks, Plant Manager
Weyerhaeuser Company
Wood Products Division
P.O. Box 280
Ayden, North Carolina 28513

Dear Mr. Burks:

SUBJECT: Air Quality Permit No. 06270T17
Facility ID: 07/74/00252
Weyerhaeuser Company
Grifton, NC, Pitt County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application received August 29, 2007 for an administrative amendment, we are forwarding herewith Air Quality Permit No. **06270T17** to Weyerhaeuser Company, Grifton, 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 in an attachment to this letter. 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, 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.

Permitting Section

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

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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 NCGS 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 NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

A summary of changes to your Title V permit is included as an attachment to this letter. This Air Quality Permit shall be effective from September 17, 2007 until January 31, 2012, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Mr. Michael Smithwick at (919)715-6247.

Sincerely,

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

Enclosures

c: EPA Region IV, Permit only
Washington Regional Office
Central Files

Summary of Changes to Permit

The following changes were made to the Weyerhaeuser Company Air Permit. New Permit No. 06270T17

Page(s)	Section	Description of Change(s)
Attachments	-	- Added attachment summarizing changes to the Permit.
1	Cover Page	- Updated permit revision numbers and effective date. - Updated permit issuance date.
3 - 30	All, Header	- Updated permit revision number.
3	Part I, Section 1, permitted equipment list	- Removed references to NESHAP DDDDD from equipment list.
4	Part I, Section 2.1 A, regulations table	- Removed the applicability of 15A NCAC 2D .1111 (40 CFR 63, Subpart DDDDD)
7	Part I, Section 2.1 B, regulations table	- Removed the applicability of 15A NCAC 2D .1111 (40 CFR 63, Subpart DDDDD)
16	Part I, Section 2.2 A.1.d	- Removed reference of the applicability of National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart DDDDD [Boiler MACT].
18	Part I, Section 2.2 C, regulations table	- Removed the applicability of 15A NCAC 2D .1111 (40 CFR 63, Subpart DDDDD)
19	Part I, Section 2.2 C.2	- Removed requirements of 15A NCAC 2D .1111 [40 CFR Part 63 Subpart DDDDD]: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, Institutional Boilers and Process Heaters as an applicable MACT.

List of Insignificant Activities

Emission Source ID No.	Emission Source Description
IAST-2	500 gallon gasoline storage tank
IES-SSF-0901	dry trim end hog (goes to F-4)
IF-1	green chip truck loading
IF-2	bark bin and green bark loadout
IF-3	dry shavings truck loading (for emergency use only)
IF-4	dry trim ends truck loading
IF-5	bark truck loading (at the hog at the old round-wood area near the feed to the Wellons bins)
IF-7	primary conveyor (enclosed except for first 2 to 3 feet and feeds out of the main #1 Wellons bin)
IF-8	bark conveying to bark hog (covered conveyor with an open bottom)
IF-10	filing and grinding shop
IF-11	logo painting
IF-12	spray painting
IF-13	knife shop
IF-14	green chip bin
IF-15	cross-country conveyor (from the chippers to the old conveyor to the Wellons bins)
IF-16	dry shavings bin
IF-17	dry trim chip bin
IF-18	three bark and green sawdust wood residue silos (feed to Wellons Units)
IF-19	three sided enclosed truck loadout (used regularly in place of loadout (ID No. F-3)
IF-20	three sided enclosed ash system loadout at energy system
IF-21 through IF-25	five green mill conveyors
ITOST-1	hot thermal oil storage tank (12,800 gallon capacity)



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
06270T17	06270T16	September 17, 2007	January 31, 2012

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

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

Permittee: **Weyerhaeuser Company**
Facility ID: **07/74/00252**

Facility Site Location: **371 Hanrahan Road**
City, County, State, Zip: **Grifton, Pitt County, North Carolina 28530**

Mailing Address: **P.O. Box 280**
City, State, Zip: **Ayden, North Carolina 28513**

Application Number: **7400252.07A**
Complete Application Date: **August 29, 2007**
Primary SIC Code: **2421**

Division of Air Quality,
Regional Office Address: **Washington Regional Office**
943 Washington Square Mall
Washington, North Carolina 27889

Permit issued this the 17th day of September, 2007

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

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ATTACHMENT

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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 SOURCES AND ASSOCIATED AIR POLLUTION CONTROL DEVICES AND APPURTENANCES

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-SEH-3901 CAM PSD NSPS Dc	one woodwaste-fired thermal oil heater Wellons No. 3 (98 million Btu per hour heat input) without flyash reinjection	CD-SEF-3901 and CD-SEF-4901	one multicyclone (112 eight-inch diameter tubes) discharging to one dry electrostatic precipitator
ES-SEH-1901 and ES-SEH-2901 CAM	two woodwaste-fired thermal oil heaters Wellons Nos. 1 and 2 (57.16 million Btu per hour heat input each) without flyash reinjection which together may burn up to 500 gallons per year of hydraulic waste oil, 10,000 gallons per week of washdown water, 25,000 gallons per week of kiln condensate, and associated absorbent from on-site spills of hydraulic and No. 2 fuel oils	CD-SEF-1901, CD-SEF-2901, and CD-SEF-4901	two multicyclones (66 eight-inch diameter tubes each), one each per heater, both discharging to one dry electrostatic precipitator
ES-DK1 through ES-DK7** PSD NESHAP DDDD	seven indirectly-heated lumber drying kilns	n/a	none
ES-SFF-1902 PSD	planer/trimmer mill planer and trimmer	CD-F-0903 CD-F-0904	cyclone (156 inches in diameter, CD-F-0903) in series with bagfilter (7,165 square feet in filter area, CD-F-0904)
ES-GN-1	energy system diesel fuel-fired engine No. 1 (295 HP, 2.1 million Btu per hour maximum heat input)	n/a	none
ES-GN-2	fire pump diesel fuel-fired engine No. 1 (176 HP, 1.24 million Btu per hour maximum heat input)	n/a	none

ES-GN-3 PSD	energy system diesel fuel-fired engine No. 2 (295HP, 2.1 million Btu per hour maximum heat input)	n/a	none
ES-GN-4 PSD	fire pump diesel fuel-fired engine No. 2 (176 HP, 1.24 million Btu per hour maximum heat input)	n/a	none
F-7	two debarkers	n/a	none

**** This source (ID No. ES-DK7) is listed as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R does not apply.**

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Sources and Control Devices Specific Limitations and Conditions

The emission sources and associated air pollution control devices 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. One woodwaste-fired thermal oil heater (ID No. ES-SEH-3901) and associated multicyclone (ID No. CD-SEF-3901) and electrostatic precipitator (ID No. CD-SEF-4901)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
odors	See Multiple Emission Sources Subsection 2.2. A. - State-enforceable Only	15A NCAC 2D .1806
particulate matter	0.10 pounds per million Btu heat input	15A NCAC 2D .0524 (40 CFR Part 60 Subpart Dc)
	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
	See Multiple Emission Sources Subsection 2.2. A.	15A NCAC 2D .0614 (40 CFR 64 - CAM)
visible emissions	20 percent opacity	15A NCAC 2D .0524
	continuous opacity monitor	(40 CFR Part 60 Subpart Dc)
carbon monoxide	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
nitrogen oxides	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
volatile organic compounds	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530

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

- a. Emissions of sulfur dioxide from this thermal heater 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.1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of woodwaste in the thermal heater.

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

- a. 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 this thermal heater shall not be more than **0.10 pounds per million Btu heat input**.
- c. Visible emissions from this source 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.

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

- d. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above by testing the combined exhaust from the three thermal oil heaters (ID Nos. ES-SEH-1901, ES-SEH-2901, and ES-SEH-3901) at the discharge of the electrostatic precipitator (ID No. CD-SEF-4901) for particulate matter with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in Section 3 - General Condition JJ. **Testing shall be completed within one year of the startup of the seventh lumber drying kiln (ID No. ES-DK7) unless an alternate date is approved by the DAQ.** The three thermal oil heaters and the seven lumber drying kilns shall be in operation throughout the testing period. If the results of this test are above the limit given in Section 2.1 A. 2. b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.
- e. If additional emissions testing is required, the testing shall be performed in accordance with and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 2. b. or 2.1.A. 2. c. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

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

- f. 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 .0504 if the COMS is not calibrated, maintained, and tested.
- g. Particulate matter emissions from the thermal oil heater shall be controlled by one multicyclone and one dry electrostatic precipitator (ESP) operating with at least one of its two electrical fields energized. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:
- i. a monthly external visual inspection of the system ductwork and multicyclone collection unit for leaks

- and of the critical components of the electrostatic precipitator such as rappers, ash removal equipment; and field voltage; and
- ii. an annual internal inspection of the multicyclone's and electrostatic precipitator's structural integrity to include for the ESP checks for signs of plugging of gas distribution plates and hopper, signs of excessive buildup on inlet and outlet plenum floor surfaces, and for broken rapper rod insulators, cracked support bushing insulators, and broken or loose stabilizer bar insulators (if installed) and replacement as required.

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

- h. The results of inspections and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. a report of any maintenance performed on the multicyclone and electrostatic precipitator;
 - iv. the transformer-rectifier electrical data for the electrostatic precipitator including field voltage; and
 - v. any variance from manufacturer's recommendations, if any, and corrections made.

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

- i. 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 continuous opacity monitoring system (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;
 - ii. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones and electrostatic precipitator; and
 - iii. 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.

B. Two woodwaste-fired thermal oil heaters (ID Nos. ES-SEH-1901 and ES-SEH-2901) and associated multicyclones (ID Nos. CD-SEF-1901 and CD-SEF-2901) and electrostatic precipitator (ID No. CD-SEF-4901)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate emissions	<i>when firing woodwaste</i> : 0.41 pounds per million Btu	15A NCAC 2D .0504
	<i>when firing woodwaste with hydraulic waste oil</i> $E = [(0.41)(Q_w) + (0.32)(Q_o)]$ pounds per million Btu (Q _w + Q _o)	
	where: Q _w = actual wood heat input rate in Btu/hr Q _o = actual waste oil heat input rate in Btu/hr	
	See Multiple Emission Sources Subsection 2.2. A.	15A NCAC 2D .0614 (40 CFR 64 - CAM)
sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
visible emissions	20 percent opacity	15A NCAC 2D .0521
odors	See Multiple Emission Sources Subsection 2.2. A. - State-enforceable Only	15A NCAC 2D .1806

Regulated Pollutant	Limits/Standards	Applicable Regulation
toxic air pollutants	used oil shall be equivalent to No. 2 fuel oil - State-enforceable Only	15A NCAC 2Q .0700

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

- a. Emissions of particulate matter from the combustion of wood that are discharged from each of these thermal heaters (ID Nos. ES-SEH-1901 and ES-SEH-2901) into the atmosphere shall not exceed **0.41 pounds per million Btu heat input**. [15A NCAC 2D .0504]
- b. Emissions of particulate matter from the combustion of wood with hydraulic waste oil from these thermal heaters shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0504]

$$E = \frac{[(0.41)(Q_w) + (0.32)(Q_o)]}{(Q_w + Q_o)} \text{ pounds per million Btu}$$

where: Q_w = actual wood heat input rate in Btu/hr
 Q_o = actual hydraulic oil heat input rate in Btu/hr

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

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

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

- d. Particulate matter emissions from the thermal oil heaters shall be controlled by two multicyclones and one dry electrostatic precipitator operating with at least one of its two electrical fields energized. To assure compliance, the Permittee shall perform inspections and maintenance as required for the electrostatic precipitator in Section 2.1. A. 2. g. and as recommended by the manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there are no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement for the multicyclones and ductwork must include the following:
 - i. a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual internal inspection of the multicyclones structural integrity.
 The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the multicyclone and ductwork are not inspected and maintained.

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

- e. The results of the inspections and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. a report of any maintenance performed on the multicyclone; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

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

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

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

- a. Emissions of sulfur dioxide from this source shall not exceed **2.3 pounds per million Btu heat input**. Sulfur

dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

- b. The sulfur content of the hydraulic or other waste oils fired in the heaters shall not exceed **1.0 percent by weight**.
- c. The maximum total firing amount of waste oil in the heaters shall not exceed **500 gallons per year**.

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

- d. 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)]

- e. The Permittee shall maintain accurate records of the actual amount and type of the used oil burned in the heaters. These records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request.

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

- a. Visible emissions from these thermal heaters (ID Nos. ES-SEH-1901 and ES-SEH-2901) 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/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. The continuous opacity monitoring system required under Section 2.1. A. 2. f. also monitors the visible emissions from the firing of wood and waste oil in these heaters. If the COMS results exceed the limit given in Section 2.1. B. 3. a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521. No additional monitoring, recordkeeping, or reporting is required.

State Only Requirement

4. 15A NCAC 2Q .0700: PERMIT REQUIREMENTS FOR TOXIC AIR POLLUTANTS

- a. i. Pursuant to 15A NCAC 2Q .0700, the Permittee is allowed to burn up to 500 gallons per year used hydraulic, thermal oil, lubricating, and No. 2 fuel oil in these heaters, provided the used oil is generated on-site and equivalent to unadulterated No. 2 fuel as shown by meeting the following criteria:

<u>Constituent/Property</u>	<u>Allowable Level</u>
Arsenic	1 ppm maximum
Cadmium	2 ppm maximum
Chromium	5 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	100°F minimum
Sulfur	1.0 % maximum
Ash	1.0 % maximum

- ii. The Permittee is allowed to burn waste Tri-Maxx lubricating oil (1.7% maximum ash content), provided that the waste oil is generated on-site and meets the criteria for waste oils listed in **Condition 2.1.B.4.a.i.** above with the exception of ash content which is limited to 1.7%.

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

- b. The Permittee shall maintain accurate records of the actual amount and type of the used oil burned in the heaters. These records shall be maintained in a logbook (written or electronic format) on-site and made

available to an authorized representative upon request.

C. Seven indirectly-heated lumber drying kilns (ID Nos. ES-DK1, ES-DK2, ES-DK3, ES-DK4, ES-DK5, ES-DK6, and ES-DK7)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E=4.10 P^{0.67}$ where E = allowable emissions rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 2D .0515
	See Multiple Emissions Subsection 2.2. B.	15A NCAC 2D .0530
visible emissions	20 percent opacity	15A NCAC 2D .0521
odors	See Multiple Emissions Subsection 2.2. A. - State-enforceable only	15A NCAC 2D .1806
volatile organic compounds	See Multiple Emissions Subsection 2.2. B.	15A NCAC 2D .0530
acrolein	0.90 pounds per hour; State-enforceable Only	15A NCAC 2D .1100
formaldehyde	0.67 pounds per hour; State-enforceable Only	
acetaldehyde	6.8 pounds per hour; State-enforceable Only	15A NCAC 2Q .0711
ammonia	0.68 pounds per hour; State-enforceable Only	
phenol	0.24 pounds per hour; State-enforceable Only	
Hazardous air pollutants	See Multiple Emission Sources Subsection 2.2. C. (No applicable requirements beyond initial notification.)	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)

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

- a. Emissions of particulate matter from the lumber drying kilns (ID Nos. ES-DK-1 through ES-DK-7) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

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

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

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

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the drying of lumber in the kilns.

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

- a. Visible emissions from the lumber drying kilns (ID Nos. ES-DK-1 through ES-DK-7) 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/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the drying of lumber in the kilns.

State Only Requirement

3. 15A NCAC 2D .1100: TOXIC AIR POLLUTANT EMISSION LIMITATION AND REPORTING REQUIREMENT

- a. Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following emission limits shall not be exceeded from the seven indirectly-heated lumber drying kilns (ID Nos. ES-DK1, ES-DK2, ES-DK3, ES-DK4, ES-DK5, ES-DK6, and ES-DK7).

Regulated Pollutant	Limits/Standards
acrolein (107-02-8)	0.90 pounds per hour
formaldehyde (50-00-0)	0.67 pounds per hour

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

- b. The Permittee shall maintain records of production rates, fuel usage, and other process operational information as necessary to determine compliance with the limits given in Section 2.1 C. 3. a. above. The Permittee shall maintain these records for a period of two years from the date of recording.

State Only Requirement

4. 15A NCAC 2Q .0711: TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT

- a. 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.
- b. 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.
- c. 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".
- d. 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:

Regulated Pollutant	Limits/Standards
acetaldehyde (75-07-0)	6.8 pounds per hour
ammonia (7664-41-7)	0.68 pounds per hour
phenol (108-95-2)	0.24 pounds per hour

D. Planer/trimmer mill-planer and trimmer (ID No. ES-SFF-1902), and associated cyclone (ID No. CD-F-0903) and bagfilter (ID No. CD-F-0904)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	adequate duct work and properly designed collectors	15A NCAC 2D .0512
	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
visible emissions	20 percent opacity	15A NCAC 2D .0521
odors	See Multiple Emission Sources Subsection 2.2. A. - State-enforceable Only	15A NCAC 2D .1806

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

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

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

- b. Particulate matter emissions from the woodworking operation (ID No. ES-SFF-1902) shall be controlled by a cyclone (ID No. CD-F-0903) and a bagfilter (ID No. CD-F-0904). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
 - i. monthly external inspection of the ductwork, cyclone, and bagfilter noting the structural integrity; and
 - ii. annual internal inspection of the bagfilter noting the structural integrity and the condition of the filters.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork, cyclone and bagfilter are not inspected and maintained.

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

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

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

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

- a. Visible emissions from the woodworking operations (ID No. ES-SFF-1902) 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 planer/trimmer mill.

E. Energy system diesel fuel-fired engine No. 1 (ID No. ES-GN1) and fire pump diesel fuel-fired engine No. 1 (ID No. ES-GN2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
sulfur dioxide	2.3 pounds per million Btu	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 these engines (ID Nos. ES-GN-1 and ES-GN-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 E. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil in these engines.

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

- a. Visible emissions from these engines (ID Nos. ES-GN-1 and ES-GN-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.E.2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in these engines.

F. Energy system diesel fuel-fired engine No. 2 (ID No. ES-GN3) and fire pump system diesel fuel-fired engine No. 2 (ID No. ES-GN4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
visible emissions	20 percent opacity	15A NCAC 2D .0521
particulate matter	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
volatile organic compounds	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
nitrogen oxide	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530
carbon monoxide	See Multiple Emission Sources Subsection 2.2. B.	15A NCAC 2D .0530

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

- a. Emissions of sulfur dioxide from these engines (ID Nos. ES- GN-3 and ES-GN-4) 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 F. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing No. 2 fuel oil in these engines.

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

- a. Visible emissions from these engines (ID Nos. ES-GN-3 and ES-GN-4) 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.F.2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in these engines.

G. Two debarkers (ID No. F-7)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	less than 75 micrograms per cubic meter (annual mean) and 150 micrograms per cubic meter (24-hour maximum) in the ambient air beyond the property line	15A NCAC 2D .0512
visible emissions	20 percent opacity	15A NCAC 2D .0521

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

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

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

- b. No monitoring, recordkeeping, or reporting is required for particulate emissions from the debarkers.

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

- a. Visible emissions from the debarkers 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.G. 2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the debarkers.

2.2- Multiple Emission Sources Specific Limitations and Conditions

A. Three woodwaste-fired thermal oil heaters (ID Nos. ES-SEH-1901, ES-SEH-2901, and ES-SEH-3901) and associated multicyclones (ID Nos. CD-SEF-1901, CD-SEF-2901, CD-SEF-3901) and electrostatic precipitator (ID No. CD-SEF-4901) and seven lumber drying kilns (ID Nos. ES-DK1 through ES-DK7)

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

Regulated Pollutant	Limits/Standards	Applicable Regulations
particulates	ID Nos. ES-SEH-1901, ES-SEH-2901, and ES-SEH-3901 only: continuous opacity monitor	15A NCAC 2D .0614 (40 CFR 64 - CAM)
odors	odorous emissions must be controlled; State-enforceable only	15A NCAC 2D .1806

1. 15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING

- a. Per 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following compliance assurance monitoring (CAM) requirements.
- b. **Background**
 - i. Emission Unit(s).
 - (A) Description: three woodwaste-fired thermal oil heaters
 - (B) Identification: **ID Nos. ES-SEH-1901, ES-SEH-2901, and ES-SEH-3901**
 - ii. Applicable Regulation, Emission Limit, and Monitoring Requirements
 - (A) Regulations:
 - (1) 15A NCAC 2D .0504 (**ID Nos. ES-SEH-1901 and ES-SEH-2901**)
 - (2) 15A NCAC 2D .0524 - NSPS Subpart Dc (**ID No. ES-SEH-3901**)
 - (3) 15A NCAC 2D .0530 - PSD (**ID No. ES-SEH-3901**)
 - (B) Emission limits:
 - (1) 0.41 pounds per million Btu heat input (**ID Nos. ES-SEH-1901 and ES-SEH-2901**)
 - (2) 0.10 pounds per million Btu heat input (**ID No. ES-SEH-3901**)
 - (3) 0.10 pounds per million Btu heat input and 42.9 tons per year (**ID No. ES-SEH-3901**)
 - (C) Control Technology: individual multicyclones (**ID Nos. CD-SEF-1901, CD-SEF-2901, and CD-SEF-3901**) followed by common dry electrostatic precipitator (**CD-SEF-4901**)
- c. **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.

I. Indicator	Visible emissions
Measurement Approach	Visible emissions from the dry electrostatic precipitator (ESP) will be monitored continuously using a continuous opacity monitoring (COM) system on the common stack.
II. Indicator Range	An excursion is defined as visible emissions in amounts greater than 20% (six-minute average). Excursions trigger an inspection, corrective action, and a reporting requirement.
QIP Threshold	The QIP threshold is six excursions in a six-month reporting period.
III. Performance Criteria	
A. Data Representativeness	Measurements are being made at the emission point (ESP 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, PS1.
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.
F. Averaging Periods	NA

- d. **Justification**
 - i. Background. The pollutant-specific emission units are the three woodwaste-fired thermal oil heaters used to provide heat to the seven indirectly-heated lumber drying kilns. The particulate matter emissions from each thermal oil heater are controlled by individual multicyclones and a common dry electrostatic precipitator (ESP). Thermal oil heater No. 3 is rated at 98 million Btu per hour heat input, and thermal oil heater Nos. 1

and 2 are rated at 57.16 million Btu per hour heat input each. Thermal oil heater No. 3 is subject to New Source Performance Standards (NSPS), Subpart Dc. None of the thermal oil heaters are considered "large" CAM sources (post-control emissions for each are less than 100 tons per year).

- ii. Rationale for Selection of Performance Indicator. Even though continuous monitoring is not required under the CAM rules since these are not "large" sources, the facility is required to operate and maintain a continuous opacity monitoring (COM) system to comply with NSPS, Subpart Dc requirements for thermal oil heater No. 3. This COM system must comply with 40 CFR Part 60 Appendix B "Performance Specifications" and Appendix F "Quality Assurance Procedures." Since the COM system is installed on the common ESP exhaust for all three units, emissions from all three thermal oil heaters are monitored by the same COM system.
- iii. Rationale for Section of Indicator Range. The indicator range chosen for the common COM system is greater than 20% opacity (six-minute average) except for one six-minute period per hour of not more than 27 percent. When an excursion occurs, corrective action will be initiated, beginning with an evaluation of the occurrence to determine the action required to correct the situation. All excursions will be documented and reported. This indicator range was selected because: (1) an increase in visible emissions is indicative of an increase in particulate emissions; and (2) a COM system is a well established monitoring technique for these sources.

The selected QIP threshold for Dry ESP visible emissions is six excursions in a six-month reporting period. This level is three percent of the total visible emissions observations. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

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

- e. 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:
 - i. 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;
 - ii. 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
 - iii. 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.

State-enforceable Only

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

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.
- b. If the Director determines that a source or facility is emitting an objectionable odor, by the procedures described below, the Permittee shall:
 - i. within 180 days of receipt of written notification from the Director of the requirement to implement maximum feasible controls, complete the determination process outlined in 15A NCAC 2D .1807 and submit to the Director a completed maximum feasible control determination process, a permit application for maximum feasible controls and a compliance schedule;
 - ii. within 18 months of receipt of written notification from the Director of the requirement to implement maximum feasible controls, have installed and begun operating maximum feasible controls.

B. One woodwaste-fired thermal oil heater (ID No. ES-SEH-3901) and associated multicyclone (ID No. CD-SEF-3901) and electrostatic precipitator (ID No. CD-SEF-4901); seven indirectly-heated lumber drying kilns (ID Nos. ES-DK1, ES-DK2, ES-DK3, ES-DK4, ES-DK5, ES-DK6, and ES-DK7); one planer/trimmer mill-planer and trimmer (ID No. ES-SFF-1902) and associated cyclone (ID No. CD-F-0903) and bagfilter (ID No. CD-F-0904); fire pump diesel fuel-fired engine No. 2 (ID No. ES-

GN3); and energy system diesel fuel-fired engine No. 2 (ID No. ES-GN4)

1. 15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. The Permittee shall comply with all the requirements in accordance with the PSD, Final Determination by the Division of Air Quality dated September 26, 1997. The Permittee shall not exceed the following Best Available Control Technology (BACT) emission limitations:

SOURCE	POLLUTANT	EMISSION LIMIT
thermal oil heater No. 3 (ID No. ES-SEH-3901)	particulate matter	0.10 pounds per million Btu heat input; 42.9 tons per year
	carbon monoxide	0.50 pounds per million Btu heat input; 214.62 tons per year
	nitrogen oxides	0.25 pounds per million Btu heat input; 107.0 tons per year
	volatile organic compounds	0.007 pounds per million Btu heat input; 3.15 tons per year
lumber drying kilns (ID Nos. ES-DK1 through ES-DK-7)	particulate matter	0.235 pounds per thousand board feet of lumber dried (nominal basis); 35.25 tons per year
	volatile organic compounds	5.0 pounds per thousand board feet of lumber dried (nominal basis); 750.0 tons per year
planer/trimmer mill-planer and trimmer (ID No. ES-SFF-1902)	particulate matter	0.43 pound per hour; 1.89 tons per year
	volatile organic compounds	2.13 pound per hour; 9.31 tons per year
energy system diesel fuel-fired engine No. 2 (ID No. ES-GN-3)	particulate matter	0.64 pounds per hour; 0.032 tons per year
	carbon monoxide	2.00 pounds per hour; 0.098 tons per year
	nitrogen oxides	9.10 pounds per hour; 0.46 tons per year
	volatile organic compounds	0.74 pounds per hour; 0.037 tons per year
fire pump diesel fuel-fired engine No. 2 (ID No. ES-GN-4)	particulate matter	0.38 pounds per hour; 0.019 tons per year
	carbon monoxide	1.20 pounds per hour; 0.06 tons per year
	nitrogen oxides	5.5 pounds per hour; 0.28 tons per year
	volatile organic compounds	0.45 pounds per hour; 0.023 tons per year

- b. To ensure compliance with the emission limits given in 2.2.C.1.a. above, the Permittee shall not exceed the following operational limits:
- i. 300 million board feet per year of lumber dried in the seven kilns combined; and
 - ii. 100 hours of operation per year each for the energy system and fire pump diesel fuel-fired engines (ID Nos. ES-GN-3 and ES-G-4)

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

- c. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A

NCAC 2D .0501(c)(3) and General Condition JJ found in Section 3. If the average of the results of this test are above the limits given in Section 2.2.C.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- d. Calculations of VOC emissions per month from the lumber drying kilns (ID Nos. ES-DK1 through ES-DK7) shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of lumber dried in the kilns by an emission factor of **5.0 pounds of VOC emissions per thousand board feet of lumber** dried (nominal basis). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the VOC emissions exceed the limit given in Section 2.2.C.1.a. above.

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

- e. The calculations and the total amount of VOC emissions from the lumber drying kilns (ID Nos. ES-DK1 through ES-DK7) and the number of hours of operation of the two engines (ID Nos. ES-GN-3 and ES-GN-4) shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amounts of lumber dried and VOCs emitted from the kilns and the hours of operation of the engines (ID Nos. ES-GN-3 and ES-GN-4) are not monitored and recorded.

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

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities within 30 days after each calendar year quarter, postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 for the calendar year for the preceding three-month period between July and September. The report shall contain the following:
 - i. The monthly VOC emissions from the lumber drying kilns for the previous 14 months. The emissions shall be calculated for each of the three 12-month periods over the previous 14 months.
 - ii. The monthly quantities of lumber dried for the previous 14 months; and
 - iii. The monthly hours of operation of the engines (ID Nos. ES-GN-3 and ES-GN-4)
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

C. Facility-wide 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 Manufacturing MACT (No applicable requirements beyond initial notification.)	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
TAP	Last MACT/air toxics demonstration - State-enforceable Only	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, 2008 or as amended by Rule for the seven indirectly-heated lumber drying kilns (ID Nos. ES-DK1 through ES-DK7). [40 CFR 63.2233]

2. **15A NCAC 2Q .0705: Existing Facilities and SIC Calls**
 - a. **Air Permit Application Submittal Requirements** - In accordance with 15A NCAC 2Q .0705(b), for sources at a facility subject to a MACT standard, excluding the MACT for combustion sources, an air permit application shall be required demonstrating compliance with 15A NCAC 2D .1100 “Control of Toxic Air Pollutants”:
 - i. at the same time the facility submits an air permit application to comply with the last MACT; or
 - ii. at least three months prior to the same deadline date that the facility is required to be in compliance with the last MACT standard if an application is not required to comply with the last MACT. This will allow the Division time to process the application before the compliance deadline date. More than three months may be necessary to process an application if control devices are required to comply with either 2D .1100 or the last MACT.
 - b. The permit application demonstrating compliance with 15A NCAC 2D .1100 shall include an evaluation for all toxic air pollutants covered under rule 15A NCAC 2D .1104 for all sources at the facility, excluding those sources exempt from evaluation under 15A NCAC 2Q .0702. If the facility has already demonstrated facility-wide compliance with 2D .1100 the application should include the date of compliance demonstration, air permit number, and a list of applicable toxic pollutants.
 - c. **Compliance Deadline Date Requirement** - The facility shall be in compliance with the 15A NCAC 2D .1100 Toxic Air Pollutants rule by the same deadline date that it is required to be in compliance with the last MACT standard.

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(i)(16) and 2Q .0517(f)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environment and Natural Resources. Annual permit fee payments shall refer to the permit number.

3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 2Q .0519.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).

3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

PART II

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

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances **associated with Air Quality Permit Application 7400252.05A**:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-DK7**	indirectly-heated lumber drying kiln	N/A	none

**** This source (ID No. ES-DK7) is listed as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R does not apply. The Permittee shall submit another application to amend this permit within 12 months of start up of these sources.**

The air emission source(s) and associated air pollution control device(s) and appurtenances listed in Section 1 are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements as specified herein:

- Any air emission sources or control devices listed in Section 1 must be constructed and maintained in accordance with the provisions contained herein constructed and operated in accordance with provisions contained in Part I of this permit. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A NCAC, Subchapter 2D .0530 and 2Q .0100.
- The Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) listed in Section 1 on or before 12 months after commencing operation.

SECTION 3: GENERAL CONDITIONS:

This section describes terms and conditions applicable to the construction of the air emission source(s) and associated air pollution control device(s) listed in Section 1 and State-only emission sources listed in Part I of the permit. Unless otherwise specified herein all references to the "permit" in this section apply only to Part II of the permit.

A. Operating Conditions

All conditions for the air emission source(s) and associated air pollution control device(s) listed in Section 1 are under Part I of this permit.

B. General Provisions

- This permit is nontransferable by the Permittee. Future owners and operators must obtain a new Air Quality Permit from the DAQ.
- This issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of state law which have occurred prior to the issuance date of this permit.
- A violation of any term or condition of Part II of this permit shall subject the Permittee to enforcement pursuant to NCGS 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

C. **Submissions (reports, test data, monitoring data, notifications, and requests for renewal)**

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.

D. **Part II Renewal Request**

The Permittee shall request renewal of the emission source(s) and associated air pollution control device(s) listed in Section 1 at the same time as specified in Part I, Section 3 - General Condition K of this permit.

E. **Annual Fee Payment**

The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200 and in conjunction with Part I, Section 3 - General Condition W of this Air Quality Permit.

F. **Reporting Requirements**

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

1. changes in the information submitted in the application;
2. changes that modify equipment or processes; or
3. changes in the quantity or quality of materials processed.

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

G. **Termination, Modification, and Revocation of the Permit**

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; or
4. 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.

H. **Inspection and Entry**

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:

1. 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;
2. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
3. 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
4. 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.

I. **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 appurtenance.

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