



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL ABRACZINSKAS
Director

Enter XXXXX xx, 2023

D.J. Russell
General Manager
West Fraser, Inc. - Armour Lumber Mill
361 Federal Road
Riegelwood, North Carolina 28456

SUBJECT: Air Quality Permit No. 02248T33
Facility ID: 2400125
West Fraser, Inc. - Armour Lumber Mill
Riegelwood
Columbus County
Fee Class: Title V
PSD Class: Major

Dear: Mr. Russell

In accordance with your completed Air Quality Permit Application for a renewal of your Title V permit, we are forwarding herewith Air Quality Permit No. 02248T33 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 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. 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 file a petition for contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other persons aggrieved to file such a petition is contained in the attached "Notice Regarding the Right to Contest A Division of Air Quality Permit Decision."

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to existing 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



North Carolina Department of Environmental Quality | Division of Air Quality
217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641
919.707.8400

Mr. Russell

DATE

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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.

Columbus County has triggered increment tracking under PSD for PM₁₀, SO₂, and NO_x. However, this permit renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from **(Enter Permit Issuance Date)** until **(Enter Permit Expiration Date)**, 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 Jacob Larson at (919) 707-8407 or Jacob.larson@ncdenr.gov.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Brad Akers, EPA Region 4 (Permit and Review)
Laserfiche [2400125]
Connie Horne (cover letter only)

**NOTICE REGARDING THE RIGHT TO CONTEST A DIVISION OF AIR QUALITY PERMIT
DECISION**

Right of the Permit Applicant or Permittee to File a Contested Case: Pursuant to NCGS 143-215.108(e), a permit applicant or permittee who is dissatisfied with the Division of Air Quality's decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 in the Office of Administrative Hearings within 30 days after the Division notifies the applicant or permittee of its decision. If the applicant or permittee does not file a petition within the required time, the Division's decision on the application is final and is not subject to review. The filing of a petition will stay the Division's decision until resolution of the contested case.

Right of Other Persons Aggrieved to File a Contested Case: Pursuant to NCGS 143-215.108(e1), a person other than an applicant or permittee who is a person aggrieved by the Division's decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 within 30 days after the Division provides notice of its decision on a permit application, as provided in NCGS 150B-23(f), or by posting the decision on a publicly available Web site. The filing of a petition under this subsection does not stay the Division's decision except as ordered by the administrative law judge under NCGS 150B-33(b).

General Filing Instructions: A petition for contested case hearing must be in the form of a written petition, conforming to NCGS 150B-23, and filed with the Office of Administrative Hearings, 1711 New Hope Church Road, Raleigh NC, 27609, along with a fee in an amount provided in NCGS 150B-23.2. A petition for contested case hearing form may be obtained upon request from the Office of Administrative Hearings or on its website at <https://www.oah.nc.gov/hearings-division/filing/hearing-forms>. Additional specific instructions for filing a petition are set forth at 26 NCAC Chapter 03.

Service Instructions: A party filing a contested case is required to serve a copy of the petition, by any means authorized under 26 NCAC 03 .0102, on the process agent for the Department of Environmental Quality:

William F. Lane, General Counsel
North Carolina Department of Environmental Quality
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

If the party filing the petition is a person aggrieved other than the permittee or permit applicant, the party **must also** serve the permittee in accordance with NCGS 150B-23(a).

* * *

Additional information is available at <https://www.oah.nc.gov/hearings-division/hearing-process/filing-contested-case>. Please contact the OAH at 984-236-1850 or oah.postmaster@oah.nc.gov with all questions regarding the filing fee and/or the details of the filing process.

Summary of Changes to Permit

The following changes were made to Air Permit No. 02248T32:

Page No.	Section	Description of Changes
--	Cover letter and throughout permit	<ul style="list-style-type: none"> Updated all dates and permit revision numbers.
3	Cover letter	<ul style="list-style-type: none"> Added "Notice Regarding The Right To Contest A Division Of Air Quality Permit Decision" page
4	Cover letter Summary of Changes to Permit	<ul style="list-style-type: none"> Added summary of changes made to Permit No. 09315T07 according to the most recent requirements of the renewal Title V permit
2	Table of Contents	<ul style="list-style-type: none"> Removed Section 2.3 "Permit Shield" Added Section 3.0 as "Insignificant Activities List" Added Section 4.0 as "General Permit Conditions"
3	List of Acronyms	<ul style="list-style-type: none"> Added "List of Acronyms"
4	Permitted Emissions Table	<ul style="list-style-type: none"> Removed Control device CD-C1-1 and description from table per the application.
4	Permitted Emissions Table	<ul style="list-style-type: none"> Removed the * and footnote at the bottom of the table.
9	2.1(B)(4)	<ul style="list-style-type: none"> Removed 15A NCAC 02D .530(u) from permit
9-14	2.1(B)(5)	<ul style="list-style-type: none"> Updated MACT DDDDD for clarity Memorialized initial compliance dates Updated emission limitations to current regulations Updated subsequent compliance requirements for clarity Added start-up and shut-down requirements
16	2.1 (D)(1)(c)	<ul style="list-style-type: none"> Updated spreadsheet link
17	2.1 (D)(2)	<ul style="list-style-type: none"> Added MACT DDDD condition
17	2.1 (E)(1)(b)(vii)	<ul style="list-style-type: none"> Updated opacity limits for Air Curtain Burner for clarity
19-22	2.1 (F)(4) and (5)	<ul style="list-style-type: none"> Added MACT DDDDD avoidance conditions for temporary boiler
22	Section 2.3	<ul style="list-style-type: none"> Removed MACT DDDDD permit shield for temporary boiler
23	Section 3	<ul style="list-style-type: none"> Added Insignificant Activities as Section 3 of the Title V Permit
23	Section 3	<ul style="list-style-type: none"> Removed IES-FP-1 (emergency fire pump) per the application from Insignificant Activities table
23	Section 3	<ul style="list-style-type: none"> Added IES-Piles per the application (storage pile) to Insignificant Activities table Added IES-Ash handling (ash handling) per the application to Insignificant Activities table
23	Section 3	<ul style="list-style-type: none"> Removed additional information link in footnote because site no longer exists
24-31	Section 4	<ul style="list-style-type: none"> Added General Conditions as Section 4 of the Title V Permit Updated General Conditions to (version 7.0, 08/21/2023)

* This list is not intended to be a detailed record of every change made to the permit but a summary of those changes.



State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
02248T33	02248T32	XXXX	XXXX*

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than **[enter date six months prior to expiration date]**.

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 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, 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: West Fraser, Inc. – Armour Lumber Mill
Facility ID: 2400125
Primary SIC Code: 2421 / Sawmills & Planing Mills General
NAICS Code: 321113 / Sawmills

Facility Site Location: 361 Federal Road
City, County, State, Zip: Riegelwood, Columbus County, North Carolina 28456
Mailing Address: 361 Federal Road
City, State, Zip: Riegelwood, North Carolina 28456

Application Number(s): 2400125.23A
Complete Application Date(s): January 13, 2023

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

Permit issued this the XX day of XXXXXX, XXXX.

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission

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LIST OF ACRONYMS

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SECTION 3: INSIGNIFICANT ACTIVITIES PER 15A NCAC 02Q .0503(8)

SECTION 4: GENERAL PERMIT CONDITIONS

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CEDRI	Compliance and Emissions Data Reporting Interface
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
PM_{2.5}	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-WW1	Planer Machine	CD-A1-1	cyclone (192 inches in diameter)
ES-WW2	Planer Trim Saw and Hog	CD-D1-1	cyclone (112 inches in diameter)
ES-Fug-L1-1	Log debarking operation	N/A	N/A
ES-BW-1 MACT DDDDD	Hybrid suspension grate wood-fired boiler (104.336 million Btu per hour maximum heat input)	CD-3 CD-2	multicyclone (72 tubes, each nine inches in diameter) venting to venturi wet scrubber (350 gallons per minute minimum liquid injection rate, based on a 3-hour average)
ES-CDPK1 and ES-CDPK2 PSD MACT DDDD	Two continuous steam-heated, dual path lumber drying kilns (each with a maximum drying rate of 137,415,000 board feet of lumber per year)	N/A	N/A
ES-K1-4 PSD MACT DDDD	One steam-heated, low temperature lumber drying kiln (with a maximum drying rate of 32,900,000 board feet of lumber per year)	N/A	N/A
ES-ACI	Portable Air Curtain Burner (commenced construction on or before November 30, 1999)	N/A	N/A
TEMP-BNG-1	Natural gas/No. 2 fuel oil-fired Temporary Boiler (less than 100 million Btu per hour maximum heat input) with low NOx burners	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Woodworking operations consisting of the following:

- **Planer machine (ID No. ES-WW1) and associated cyclone (ID No. CD-A1-1_**
- **Planer trim saw and hog (ID No. ES-WW2) and associated cyclones (ID No. D-D1-1)**
- **Fugitive debarking operation (ID No. ES-Fug-L1-1)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	Adequate ductwork and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521

1. 15A NCAC 02D .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 02Q .0508(f)]

- b. Particulate matter emissions from the wood material collection systems (ID Nos. ES-WW1 and ES-WW2) shall be controlled by three cyclones. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include monthly external inspection of the ductwork and cyclones noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork and cyclones are not inspected and maintained.

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

- c. The results of all inspections and maintenance for the cyclones shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized DAQ representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .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 given in Sections 2.1 A.1.b and c above 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 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these woodworking operations (**ID Nos. ES-WW1, ES-WW2, and ES-Fug-L1-1**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above (**ID Nos. ES-WW1, ES-WW2, and ES-Fug-L1-1**), the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. i. To ensure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. ES-WW1, ES-WW2, and ES-Fug-L1-1**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - (A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - (B) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.
- ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
 - (A) the above-normal emissions are not corrected per c.i.(A) above;
 - (B) the demonstration in c.i.(B) above cannot be made; or
 - (C) the weekly observations are not conducted per c.i above.

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.2.c and d above 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. Hybrid suspension grate wood-fired boiler (ID No. ES-BW-1) with multicyclone (ID No. CD-3) and venturi wet scrubber (ID No. CD-2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.41 pounds per million Btu	15A NCAC 02D .0504
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Particulate matter	Compliance Assurance Monitoring	15A NCAC 02D. 0614 40 CFR Part 64
Filterable PM or TSM Mercury HCl	4.4E-01 lb per MMBtu of heat input or 4.5E-04 lb per MMBtu of heat input 5.7E-06 lb per MMBtu of heat input 2.2E-02 lb per MMBtu of heat input	15A NCAC 02D .1111 40 CFR Part 63, Subpart DDDDD

Regulated Pollutant	Limits/Standards	Applicable Regulation
Carbon Monoxide	3,500 ppmvd at 3% O ₂ Applicable beginning May 20, 2019	
Odors	State-enforceable Only See Multiple Emissions Section 2.2 A.1.	15A NCAC 02D .1806

1. 15A NCAC 02D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of wood that are discharged from this source into the atmosphere shall not exceed 0.41 pounds per million Btu heat input.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.
- c. Under the provisions of NCGS 143.215.108, the Permittee shall demonstrate compliance with the emission limit above by testing the source (**ID No. ES-BW-1**) for particulate matter following a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. Testing was completed on **November 11, 2019**.

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

- d. Particulate matter emissions from boiler (**ID No. ES-BW-1**) shall be controlled by a multicyclone (**ID No. CD-3**) and wet venturi scrubber (**ID No. CD-2**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there are no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. A monthly external visual inspection of the system ductwork, multicyclone, scrubber, and material collection unit for leaks;
 - ii. Inspection of spray nozzles to detect clogging or corrosion damage of nozzles and perform maintenance and repair when necessary to ensure proper operation of the scrubber;
 - iii. Inspection, cleaning, and calibration of all associated instrumentation; and
 - iv. The performance of any maintenance and repair when necessary to ensure proper operation of the multicyclone and scrubber.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the multicyclone, scrubber, and ductwork are not inspected and maintained.

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

- e. The results of all inspections and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized DAQ 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/or scrubber; and
 - iv. Any variance from manufacturer’s recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not created and retained.

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

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone or scrubber.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 B.1.d and e 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 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from this source shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of wood in this boiler.

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

- a. Visible emissions from this boiler (**ID No. ES-BW-1**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall any six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. i. To ensure compliance, once a day the Permittee shall observe the emission points of this source (**ID No. ES-BW-1**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semiannual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - (A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - (B) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.3.a above.
- ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
 - (A) the above-normal emissions are not corrected per c.i.(A) above;
 - (B) the demonstration in c.i.(B) above cannot be made; or
 - (C) the daily observations are not conducted per c.i above.

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized DAQ representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

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

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 B.3.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .0614 “Compliance Assurance Monitoring”

- a. Pursuant to 40 CFR 64 and 15A NCAC 02D .0614, the Permittee shall comply with the conditions below for the hybrid suspension grate wood-fired boiler (**ID No. ES-BW-1**) with multicyclone (**ID No. CD-3**) and venturi wet scrubber (**ID No. CD-2**)

Emission Limitations/Standards

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter (PM)	0.41 pounds per million Btu heat input	15A NCAC 02D .0512

Monitoring Approach [15A NCAC 02Q .0508(f), 40 CFR 64.6]

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

Monitoring Elements	Indicator
Measurement Approach	Visible emissions from the venturi scrubber outlet will be monitored <u>daily</u> using a reference method 22-like procedures.
Indicator Range	An excursion is defined as the presence of visible emissions. Excursions trigger an inspection and corrective action. Excursion triggers corrective action, recordkeeping and reporting requirement.
QIP threshold	The Permittee shall develop a QIP if the threshold of six excursions in a six-month reporting period is exceeded.
Data Representativeness	Observations are being made at the emission points (venturi scrubber outlet).
QA/QC Practices and Criteria	The observer will be familiar with Method 22 and the follow Method 22-like procedures.
Monitoring frequency	One Method 22-like observation shall be performed daily.
Data collection procedure	The results of the monitoring action will be recorded, including the date and time.
Averaging Period	None

Recordkeeping and Reporting [15A NCAC 02Q .0508(f), 40 CFR 64.9]

- d. The Permittee shall comply with the recordkeeping requirements of 40 CFR 64.9(b) and submit a summary report of the 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. The reports shall comply with the reporting requirements of 40 CFR 64.9(a) and include, at a minimum, the following information, as applicable:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the Permittee shall include, in the next summary report, documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances.

5. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.7485, 63.7490(d), 63.7499(h)]

- a. For these sources (i.e., *existing hybrid suspension/grate burners designed to burn wet biomass/bio-based solid with a heat input capacity 10 million Btu per hour or greater*), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" (Subpart 5D) and Subpart A "General Provisions."

Definitions and Nomenclature

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply. [40 CFR 63.7575]

40 CFR Part 63 Subpart A General Provisions

- c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR 63 Subpart DDDDD. [40 CFR 63.7565]

Compliance Date [40 CFR 63.7510(e), 40 CFR 63.56(b)]

- d. The Permittee shall:
 - i. Complete the initial tune up and the one-time energy assessment as required in Section 2.1.B.5.m no later than May 20, 2019. *This requirement was met on 05/20/2019.*
 - ii. Complete the initial compliance requirements in Section 2.1 B.5.j no later than November 19, 2019 and according to the applicable provisions in 40 CFR 63.7(a)(2). *This requirement was met on 10/17/2019.* [40 CFR 63.7510(e), 40 CFR 63.56(b)]

General Compliance Requirements [15A NCAC 02Q .0508(b)]

- e. The following general compliance requirements apply:
 - i. At all times the affected unit(s) is operating, the Permittee shall be in compliance with the emission limits, work practice standards, and operating limits standards as specified in Section 2.1 B.5.g, l, and m, except during periods of startup and shutdown. During startup and shutdown, the Permittee must only comply with Sections 2.1 B.5.n and o. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met. [40 CFR 63.7500(a) and (f), 63.7505(a)]
 - ii. At all times, then Permittee shall operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [63.7500(a)(3)]

Emission Limits [15A NCAC 02Q .0508(b)]

- f. The affected unit(s) shall meet the following emission limits:

Pollutant	Emission Limit
Hydrochloric Acid (HCl)	2.2E-02 lb per MMBtu of heat input (prior to October 6, 2025) 2.0E-02 lb per MMBtu of heat input (on or after October 6, 2025)
Mercury (Hg)	5.7E-06 lb per MMBtu of heat input (prior to October 6, 2025) 5.4E-06 lb per MMBtu of heat input (on or after October 6, 2025)
Carbon monoxide (CO)	3,500 ppm by volume on a dry basis corrected to 3-percent oxygen, 3-run average; or (900 ppm by volume on a dry basis corrected to 3- percent oxygen, 30-day rolling average)
Filterable Particulate Matter (PM) or Total Suspended Metals (TSM)	4.4 E-01 lb per MMBtu of heat input (PM) or 4.5E-04 lb per MMBtu of heat input (TSM)

[40 CFR 63.7500(a)(1)(v), Table 2 and 15, Items 1 and 13 to 40 CFR 63 Subpart DDDDD]

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

- g. If emissions testing is required, the testing shall be performed in accordance with 40 CFR 63.7520 and 63.7 as applicable. If the results of this test(s) are above the limit given in Section 2.1 B.5.f above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

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

- h. The Permittee shall submit the following notifications:

- i. The Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin. [40 CFR 63.7545(d)]
- ii. For the initial compliance demonstration for each affected source, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all affected sources at the facility. The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8) of §63.7545 as applicable. [63.10(d)(2), 63.7545(e)] *This requirement was met on 10/17/2019.*

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

Initial compliance requirements [15A NCAC 02Q .0508(b)]

- j. The Permittee shall demonstrate compliance with the limits in Section 2.1 B.5.g by conducting initial performance test(s) and fuel analyses, establishing operating limits and conducting continuous monitoring system (CMS) evaluation(s) as necessary according to 40 CFR 63.7510, 63.7525 and 63.7530. [40 CFR 63.7510] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met. *This requirement was met on 10/17/2019.*

Subsequent compliance requirements [15A NCAC 02Q .0508(b)]

- k. The Permittee shall:
 - i. conduct subsequent performance tests and fuel analyses as necessary according to 40 CFR 63.7515 and as follows:
 - (A) The Permittee shall conduct all applicable performance tests according to 40 CFR 63.7520 on an annual basis, except as specified in 40 CFR 63.7515(b) through (e), (g), and (h). Annual performance tests shall be completed no more than 13 months after the previous performance test, except as specified in 40 CFR 63.7515(b) through (e), (g), and (h). [40 CFR 63.7515(a)]
 - (B) If the performance tests for a given pollutant for at least 2 consecutive years show that the emissions are at or below 75 percent of the emission limit (or, in limited instances as specified in Tables 1 and 2 or 11 through 13 to this subpart, at or below the emission limit) for the pollutant, and if there are no changes in the operation of the individual boiler or process heater or air pollution control equipment that could increase emissions, the Permittee may choose to conduct performance tests for the pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test. [40 CFR 63.7515(b)]
 - (C) If a performance test shows emissions exceeded the emission limit or 75 percent of the emission limit for a pollutant, the Permittee shall conduct annual performance tests for that pollutant until all performance tests over a consecutive 2-year period meet the required level (at or below 75 percent of the emission limit). [40 CFR 63.7515(c)]
 - ii. demonstrate continuous compliance with each emission limit, operating limit and work practice standards that applies according to 40 CFR 63.7540.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

- l. The Permittee shall:
 - i. install, operate, and maintain an oxygen analyzer system, as defined in 40 CFR 63.7575. The permittee shall demonstrate continuous compliance with the CO emission limit by:
 - (A) continuously monitoring the oxygen content using oxygen analyzer system according to 40 CFR 63.7525(a)
 - (B) reducing data to 30-day rolling averages: and
 - (C) maintaining the 30-day rolling average oxygen content at or above the lowest hourly average oxygen level measured during the most recent CO performance test.
[40 CFR 63.7500(a)(2), 63.7525(a), 63.7540(a), Table 4 and Table 8 to 40 CFR 63 Subpart DDDDD]
 - ii. for the scrubber, maintain the 30-day rolling average pressure drop and the 30-day rolling average liquid flow rate at or above the lowest one-hour average pressure drop and the lowest one-hour average liquid flow rate, respectively, measured during the most recent performance test demonstrating compliance with the PM emission limitation according to 40 CFR 63.7530(b) and Table 7 to 40 CFR 63 Subpart DDDDD. The permittee shall demonstrate continuous compliance with the PM emission limit by:
 - (A) collecting the pressure drop and liquid flow rate monitoring system data according to 40 CFR 63.7525 and 40 CFR 63.7535; and

- (B) reducing the data to 30-day rolling averages; and
- (C) maintaining the 30-day rolling average pressure drop and liquid flow-rate at or above the operating limits established during the performance test according to 40 CFR 63.7530(b).
[40 CFR 63.7500(a)(2), 63.7540(a), Table 4 and Table 8 to 40 CFR 63 Subpart DDDDD]
- iii. install, operate and maintain a CMS for operating load and maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. The permittee shall demonstrate continuous compliance with the operating load limit by:
 - (A) collecting operating load data or steam generation data every 15 minutes.
 - (B) reducing the data to 30-day rolling averages; and
 - (C) maintaining the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test according to 40 CFR 63.7520(c).
[40 CFR 63.7500(a)(2), 63.7540(a), Table 4 and 8 to 40 CFR 63 Subpart DDDDD]
- iv. meet the requirements for all monitoring systems (CMS) as applicable according to 40 CFR 63.7525(d). [40 CFR 63.7525(d)].
- v. for the scrubber pressure monitoring system (CMS), meet the requirements at 40 CFR 63.7525(f). [40 CFR 63.7525(f)].
- vi. develop a site-specific monitoring plan according to the requirements in 40 CFR 63.7505(d) for the use of any CMS. [40 CFR 63.7505(d)].
- vii. Permittee shall burn biomass in the wood fired boiler (**ID No. ES-BW-1**) that has a moisture content greater than 40 percent on an as-fired annual heat input basis as demonstrated by monthly fuel analysis to ensure that the boiler remains classified as a hybrid suspension grate boiler as defined in 40 CFR 63.7575. The Permittee shall conduct the following:
 - (A) The Permittee shall develop a site-specific fuel analysis plan.
 - (B) The Permittee shall submit the site-specific fuel analysis plan to the NC DAQ – SSCB for review and approval no later than 60 days prior to May 20, 2019. *This requirement was met on 10/17/2019.*
 - (C) The Permittee shall conduct the fuel analysis in accordance DAQ approved site-specific fuel analysis plan.
- viii. The Permittee shall monitor and collect data according to 40 CFR 63.7535 and the site-specific monitoring plan required by vi and vii above. [40 CFR 63.7535]
- ix. meet the operating limits as follows: Operation above the maximum or below the minimum operating limits shall constitute a deviation of the established operating limits above except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits. Operating limits must be confirmed or reestablished during performance tests. [40 CFR 63.7540(a)(1)]
- x. If multiple performance tests are conducted, the Permittee shall set the minimum liquid flow rate and pressure drop operating limits at the higher of the minimum values established during the performance tests. For a minimum oxygen level, if multiple performance tests are conducted, the Permittee shall set the minimum oxygen level at the lower of the minimum values established during the performance tests. For maximum operating load, if multiple performance tests are conducted, the Permittee shall set the maximum operating load at the lower of the maximum values established during the performance tests. [Table 7 to 40 CFR 63 Subpart DDDDD]

Work Practice Standards [15A NCAC 02Q .0508(b)]

Annual Tune-up

- m. The following work practice standards apply:
 - i. The Permittee shall conduct a tune-up every year while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up as specified below:
 - (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The Permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown.
 - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown).
 - (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject.
 - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in

volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40 CFR 63.7500(a), 63.7540(a)(10)]

- ii. Each tune-up shall be conducted no more than 13 months after the previous tune-up. The initial tune-up shall be conducted no later than 13 months after the initial startup of the source. [40 CFR 63.7515(d)]
- iii. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7515(g) 63.7540(a)(13)]

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

Startup Requirements

- n. During startup, the Permittee shall:
 - i. operate all CMS during startup.
 - ii. for startup of a boiler or process heater, use one or a combination of the following clean fuels: Natural gas, synthetic natural gas, propane, other Gas 1 fuels, distillate oil, syngas, ultra-low sulfur diesel, fuel oil-soaked rags, kerosene, hydrogen, paper, cardboard, refinery gas, liquefied petroleum gas, clean dry biomass, and any fuels meeting the appropriate HCl, mercury and TSM emission standards by fuel analysis.
 - iii. have the option of complying using either of the following work practice standards.
 - (A) If the Permittee chooses to comply using definition (1) of "startup" in 40 CFR 63.7575, once the Permittee starts firing fuels that are not clean fuels, the Permittee shall vent emissions to the main stack(s) and engage all of the applicable control devices except limestone injection in fluidized bed combustion (FBC) boilers, dry scrubber, fabric filter, and selective catalytic reduction (SCR). The Permittee shall start the limestone injection in FBC boilers, dry scrubber, fabric filter, and SCR systems as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose, OR
 - (B) If the Permittee chooses to comply using definition (2) of "startup" in 40 CFR 63.7575, once the Permittee starts to feed fuels that are not clean fuels, the Permittee shall vent emissions to the main stack(s) and engage all of the applicable control devices so as to comply with the emission limits within 4 hours of start of supplying useful thermal energy. The Permittee shall engage and operate PM control within one hour of first feeding fuels that are not clean fuels. The Permittee shall start all applicable control devices as expeditiously as possible, but, in any case, when necessary to comply with other standards applicable to the source by a permit limit or a rule other than this subpart that require operation of the control devices. The Permittee shall develop and implement a written startup and shutdown plan, as specified in 40 CFR 63.7505(e).
 - iv. comply with all applicable emission limits at all times except during startup and shutdown periods at which time the Permittee shall meet this work practice. The Permittee shall must collect monitoring data during periods of startup, as specified in 40 CFR 63.7535(b). The Permittee shall keep records during periods of startup. The Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555.

[Table 3 to 40 CFR 63 Subpart DDDDD]

Shutdown Requirements

- o. During shutdown, the Permittee shall:
 - i. operate all CMS during shutdown.
 - ii. while firing fuels that are not clean fuels during shutdown, the Permittee shall vent emissions to the main stack(s) and operate all applicable control devices, except limestone injection in FBC boilers, dry scrubber, fabric filter, and SCR but, in any case, when necessary to comply with other standards applicable to the source that require operation of the control device.
 - iii. if, in addition to the fuel used prior to initiation of shutdown, another fuel shall be used to support the shutdown process, that additional fuel must be one or a combination of the following clean fuels: Natural gas, synthetic natural gas, propane, other Gas 1 fuels, distillate oil, syngas, ultra-low sulfur diesel, refinery gas, and liquefied petroleum gas.
 - iv. shall comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. The Permittee shall collect monitoring data during periods of shutdown, as specified in 40 CFR 63.7535(b). The Permittee shall keep records during periods of shutdown. The Permittee shall provide reports concerning activities and periods of shutdown, as specified in 40 CFR 63.7555.

[Table 3 to 40 CFR 63 Subpart DDDDD]

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

- p. The Permittee shall:
- i. keep a copy of each notification and report submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted. [40 CFR 63.7555(a)(1), 63.10(b)(2)(xiv)]
 - ii. keep records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations. [40 CFR 63.10(b)(2)(viii)]
 - iii. maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) below for each tune up:
 - (A) The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
 - (B) A description of any corrective actions taken as a part of the tune-up; and
 - (C) the type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.7540(a)(10)(vi)]
 - iv. for each CMS, keep records according to paragraphs (b)(1) through (5) of 40 CFR 63.7555. [40 CFR 63.7555(b)]
 - v. keep records required in Table 8 to 40 CFR Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits to show continuous compliance with each emission limit and operating limit that applies. [40 CFR 63.7555(d)]
 - vi. keep the applicable records in paragraphs (d)(1) through (13) of 40 CFR 63.7555. [40 CFR 63.7555(d)]
 - vii. keep:
 - (A) records in a form suitable and readily available for expeditious review;
 - (B) each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
 - (C) each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these recordkeeping requirements are not met.

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

- q. The following reporting requirements apply:
- i. The Permittee shall submit a compliance report to the DAQ on a semi-annual basis, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. [40 CFR 63.7550(a), (b)]
 - ii. The compliance reports shall also be submitted electronically to the EPA via the procedures in 40 CFR 63.7550(h)(3). [40 CFR 63.7550(h)(3)]
 - iii. The compliance report shall contain:
 - (A) The information in 40 CFR 63.7550(c) as applicable.
 - (B) For each deviation from an emission limit or operating limit, the report shall contain the information in 40 CFR 63.7550(d) and (e) as applicable.
 - iv. Within 60 days after the date of completing each performance test (defined in 40 CFR 63.2) including any associated fuel analyses, the Permittee shall submit the results to the EPA electronically via the procedures in 40 CFR 63.7550(h)(1). [40 CFR 63.7550(h)(1)]
 - (A) This report must also verify that the operating limits for each boiler or process heater have not changed or provide documentation of revised operating limits established according to 40 CFR 63.7530 and Table 7 to 40 CFR 63 Subpart DDDDD, as applicable. The reports for all subsequent performance tests must include all applicable information required in 40 CFR 63.7550. [40 CFR 63.7515(f)]
 - (B) The Permittee shall also submit the report in (A) above directly to the DAQ within 60 days after the date of completing each performance test.

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

C. Two continuous steam-heated, dual path lumber drying kilns (ID Nos. ES-CDPK1 and ES-CDPK2)

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 emission rate (pounds/hour) P = process weight rate (tons/hour)	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile organic compounds	4.11 pounds per thousand board feet of lumber; and 282.4 tons per consecutive 12-month period per kiln 137,415,000 board feet of lumber dried per consecutive 12-month period per kiln	15A NCAC 02D .0530 PSD
Hazardous air pollutants	Plywood and Composite Wood Products Manufacturing MACT - No applicable requirements other than initial notification.	15A NCAC 02D .1111 MACT 40 CFR Part 63, Subpart DDDD
Odors	State-enforceable Only See Multiple Emissions Section 2.2 A.1.	15A NCAC 02D .1806

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

- a. Emissions of particulate matter from lumber drying kilns (ID Nos. ES-CDPK1 and ES-CDPK2) shall not exceed an allowable emission rate as calculated by the following equation for process rates less than or equal to 30 tons per hour:

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

Where E = allowable emission rate in pounds per hour

P = process weight rate in tons per hour

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

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

- b. If emissions testing is required, the Permittee shall perform 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 02D .0515.

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

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

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the lumber drying kilns (ID Nos. ES-CDPK1 and ES-CDPK2) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

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

3. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. The Permittee shall comply with the PSD Final Determination by the Division of Air Quality dated October 3, 2012. Pursuant to 15A NCAC 02D .0530 "Prevention of Significant Deterioration" {40 CFR 51.166(j) Best Available Control Technology Review (BACT)} and the PSD, Final Determination, the Permittee shall comply with the following BACT limits for the lumber kilns (ID Nos. ES-CDPK1 and ES-CDPK2):

- i. 4.11 pounds of volatile organic compound (VOC) emissions per thousand board feet of lumber
- ii. 282.4 tons of volatile organic compound (VOC) emissions per consecutive 12-month period per kiln.
- iii. 137,415,000 board feet of lumber dried per consecutive 12-month period per kiln.

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

- b. If emissions testing is required, the Permittee shall perform in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.3.a.i above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- c. The Permittee shall operate and maintain the lumber kilns (**ID Nos. ES-CDPK1 and ES-CDPK2**) in accordance with the manufacturer’s specifications or a site-specific plan approved by the NC DAQ Regional Administrator.
- d. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of lumber dried in each kiln each month by the emission factor of 4.11 pounds VOC per thousand board feet (MBF) of lumber dried or by a site-specific emission factor approved by the NC DAQ Regional Supervisor. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the VOC emissions exceed the limit given in Section 2.1 C.3.a.ii above.
- e. The maintenance performed on the kilns, the amount of lumber dried in the kilns, the VOC calculations, and the amount of VOC emitted from each kiln shall be recorded each month in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the maintenance performed on the kilns and the MBF of lumber dried and the VOC emitted during the past 12-month period is not recorded.

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

- f. The Permittee shall submit a semiannual summary report of monitoring and recordkeeping activities given in Sections 2.1 C.3 c through e above postmarked on or before January 30 of each calendar year for the preceding six-month period and on or before July 30 of each calendar year for the preceding six-month period. The report shall contain the following:
 - i. The monthly volatile organic compound emissions from each kiln for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and
 - ii. The monthly quantities of lumber dried in each kiln for the previous 17 months. The amount of lumber dried must be calculated for each of the 12-month periods over the previous 17 months; and
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

D. One steam-heated lumber drying kiln (ID No. ES-K1-4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	94.26 tons per consecutive 12-month period 5.73 pounds per thousand board feet of lumber dried	15A NCAC 02D .0530 PSD
Hazardous air pollutants	Plywood and Composite Wood Products Manufacturing MACT - No applicable requirements other than initial notification.	15A NCAC 02D .1111 MACT 40 CFR Part 63, Subpart DDDD

1. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. The Permittee shall comply with the PSD Final Determination by the Division of Air Quality dated March 11, 1997. Pursuant to 15A NCAC 02D .0530 “Prevention of Significant Deterioration” {40 CFR 51.166(j) Best Available Control Technology Review (BACT)} and the PSD, Final Determination, the Permittee shall comply with the following BACT limits for lumber kiln (**ID No. ES-K1-4**):
 - i. 5.73 pounds of volatile organic compound (VOC) emissions per thousand board feet of lumber
 - ii. 94.26 tons of volatile organic compound (VOC) emissions per consecutive 12-month period.

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

- b. If emissions testing is required, the Permittee shall perform in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.1.a.i above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- c. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of lumber dried in the kiln each month by the emission factor listed on the NC DAQ spreadsheet¹ for lumber drying kilns or an approved site-specific emission factor. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the VOC emissions exceed a limit given in Section 2.1 D.1.a above.
- d. The amount of lumber dried in the kiln, the calculations, and the amount of VOC emissions from the kiln shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the amounts of lumber dried and VOCs emitted are not monitored and recorded.

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

- e. The Permittee shall submit a semiannual summary report of monitoring and recordkeeping activities given in Sections 2.1 D.1.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period and on or before July 30 of each calendar year for the preceding six-month period. The report shall contain the following:
 - i. The monthly volatile organic compound emissions from kiln for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and
 - ii. The monthly quantities of lumber dried for the previous 17 months; and
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.2231]

- a. For the emission source (**ID No. ES-K1-4**), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" as promulgated in 40 CFR 63 Subpart DDDD "National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products" and Subpart A "General Provisions."

Definitions and Nomenclature

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

40 CFR Part 63 Subpart A General Provisions

- c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources, as identified in Table 10 to 40 CFR Part 63 Subpart DDDD. [40 CFR 63.2290]

Affected Sources Not Subject to Operating Requirements

- d. For these lumber kilns (**ID No. ES-K1-4**), the Permittee is not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of 40 CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A, except for the initial notification requirements in 40 CFR 63.9(b). [40 CFR 63.2252]

E. Portable Air Curtain Burner (ID No. ES-ACI)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	Work Practices	15A NCAC 02D .1904

¹ The DAQ spreadsheet is located at <https://www.deq.nc.gov/about/divisions/air-quality/air-quality-permitting/emission-estimation-spreadsheets>. The current version entitled "Wood Kiln Emissions Calculator Revision C July 2007" has a VOC emission factor of 4.09 lbs per thousand board feet for steam heated kilns.

Odors	State-enforceable Only See Multiple Emissions Section 2.2 A.1.	15A NCAC 02D .1806
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1. 15A NCAC 02D .1904: AIR CURTAIN BURNERS

- a. i. Air quality permits are required for air curtain burners subject to 40 CFR 60.2245 through 60.2265 or located at permanent sites or where materials are transported in from another site.
- ii. Air quality permits are not required for air curtain burners located at temporary land clearing or right-of-way maintenance sites for less than nine months unless they are subject to 40 CFR 60.2245 through 60.2265.
- iii. The operation of air curtain burners in particulate and ozone nonattainment areas shall cease in any area that has been forecasted by the Department, or the Forsyth County Environmental Affairs Department for the Triad air quality forecast area, to be in an Air Quality Action Day "Code Orange" or above during the time period covered by that forecast.
- b. Air curtain burners shall comply with the following conditions and stipulations:
 - i. *Prevailing winds* - The wind direction at the time that the burning is initiated and the wind direction as forecasted by the National Weather Service during the time of the burning shall be away from any area, including public roads within 250 feet of the burning as measured from the edge of the pavement or other roadway surface, which may be affected by smoke, ash, or other air pollutants from the burning;
 - ii. *Materials allowed to be burned* - Only collected land clearing and yard waste materials may be burned. Heavy oils, asphaltic materials, items containing natural or synthetic rubber, tires, grass clippings, collected leaves, paper products, plastics, general trash, garbage, or any materials containing painted or treated wood materials shall not be burned. Leaves still on trees or brush may be burned;
 - iii. *Ban of burning* - No fires shall be started or material added to existing fires when the North Carolina Forest Service has banned burning for that area;
 - iv. *Permissible hours of operation* - Burning shall be conducted only between the hours of 8:00 a.m. and 6:00 p.m.;
 - v. *Maximum source operating periods* - The air curtain burner shall not be operated more than the maximum source operating hours-per-day and days-per-week. The maximum source operating hours-per-day and days-per-week shall be set to protect the ambient air quality standard and prevention of significant deterioration (PSD) increment for particulate. The maximum source operating hours-per-day and days-per-week shall be determined using the modeling procedures in 15A NCAC .02D .1106(b), (c), and (f). This Subparagraph shall not apply to temporary air curtain burners;
 - vi. *Visible emissions certification and Testing* - An air curtain burner with an air quality permit shall have onsite at all times during operation of the burner a visible emissions reader certified according to 40 CFR Part 60, Method 9 to read visible emissions, and the facility shall test for visible emissions within five days after initial operation and within 90 days before permit expiration;
 - vii. *Manufacturer's specifications* - Air curtain burners shall meet manufacturer's specifications for operation and upkeep to ensure complete burning of material charged into the pit. Manufacturer's specifications shall be kept on site and be available for inspection by Division staff;
 - viii. *Opacity Limits* – The owner or operator of an existing air curtain incinerators shall meet the following opacity limits. [40 CFR 60.2250]
 - (A) Maintain opacity to less than or equal to 35 percent opacity, as determined by the average 3 1-hour blocks consisting of 10 6-minute average opacity values, during startup of the air curtain incinerator, where startup is defined as first 30 minutes of operation.
 - (B) Maintain opacity to less than or equal to 10 percent, as determined by the average of 3 1-hour blocks consisting of 10 6-minute average opacity values, at times of operation other than startup or during malfunctions.
 - ix. *Operating conditions* - The owner or operator of an air curtain burner shall not allow ash to build up in the pit to a depth higher than one-third of the depth of the pit or to the point where the ash begins to impede combustion, whichever occurs first. The owner or operator of an air curtain burner shall allow the ashes to cool and water the ash prior to its removal to prevent the ash from becoming airborne. The owner or operator of an air curtain burner shall not load material into the air curtain burner such that it will protrude above the air curtain;
 - x. *Start-up conditions* - Only distillate oil, kerosene, diesel fuel, natural gas, or liquefied petroleum gas may be used to start the fire; and
 - xi. *Required distances* - The location of the burning shall be at least 300 feet from any dwelling, group of dwellings, or commercial or institutional establishment, or other occupied structure not located on the property on which the burning is conducted. The regional office supervisor may grant exceptions to the setback requirements if a signed, written statement waiving objections to the air curtain burning is obtained from a

resident or an owner of each dwelling, commercial or institutional establishment, or other occupied structure within 300 feet of the burning site. In case of a lease or rental agreement, the lessee or renter, and the property owner shall sign the statement waiving objections to the burning. The statement shall be submitted to and approved by the regional office supervisor before initiation of the burn. Factors that the regional supervisor shall consider in deciding to grant the exception include: all the persons who need to sign the statement waiving the objection have signed it; the location of the burn; and the type, amount, and nature of the combustible substances.

Compliance with 15A NCAC 02D .1904 does not relieve any owner or operator of an air curtain burner from the necessity of complying with other air quality rules.

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

- c. The owner or operator of an air curtain burner at a permanent site shall keep a daily log of specific materials burned and amounts of material burned in pounds per hour and tons per year. The logs at a permanent air curtain burner site shall be maintained on site for a minimum of two years and shall be available at all times for inspection by the Division of Air Quality. The owner or operator of an air curtain burner at a temporary site shall keep a log of total number of tons burned per temporary site. Additionally, the owner or operator of air curtain burner subject to:
 - i. 40 CFR 60.2245 through 60.2265 shall comply with the monitoring, recordkeeping, and reporting requirements in 40 CFR 60.2245 through 60.2265.
- d. A person may use a burner using a different technology or method of operation than an air curtain burner as defined under 15A NCAC 02D .1902 of this Section if he demonstrates to the Director that the burner is at least as effective as an air curtain burner in reducing emissions and if the Director approves the use of the burner. The Director shall approve the burner if he finds that it is at least as effective as an air curtain burner. This burner shall comply with all the requirements of 15A NCAC 02D .1904.

F. Natural gas/No. 2 fuel oil-fired Temporary Boiler (ID No. TEMP-BNG-1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.33 pounds per million Btu	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 02D .0516
Visible emissions	20% opacity	15A NCAC 02D .0521
Sulfur dioxide	Meet the definition of “temporary boiler” as defined in Section 2.1 F.4	15A NCAC 02Q .0317 (Avoidance of 15A NCAC 02D .0524)
Hazardous air pollutants	Meet the definition of “temporary boiler” as defined in Section 2.1 F.5	15A NCAC 02Q .0317 (Avoidance of 15A NCAC 02D .1111)

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil and/or natural gas that are discharged from this source into the atmosphere shall not exceed 0.33 pounds per million Btu.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

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

- c. No monitoring, recordkeeping or reporting is required for particulate emissions from the firing of natural gas or No. 2 fuel oil in this source.

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

- a. Emissions of sulfur dioxide from the affected 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.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 F.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

- c. No monitoring, recordkeeping, or reporting is required to demonstrate compliance with the sulfur dioxide emissions limitation when firing No. 2 fuel oil or natural gas in the affected sources.

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

- a. Visible emissions from the affected source (**ID No. TEMP-BNG-1**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521(d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required to demonstrate compliance with the visible emissions limitation when firing No. 2 fuel oil or natural gas in the affected sources.

**4. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS**

- a. In order to avoid the applicability of Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," the Permittee shall operate the emission source (**ID No. TEMP-BNG-1**) as a temporary boiler as defined in 40 CFR 60.41c. If the emission source (**ID No. TEMP-BNG-1**) has a maximum design heat input capacity less than 10 MMBtu per hour, these requirements in Section 2.1 F.4 do not apply. [40 CFR 60.40c(i)]
- b. Temporary boiler means a steam generating unit that combusts natural gas or distillate oil with a potential SO₂ emissions rate no greater than 26 ng/J (0.060 lb/MMBtu), and the unit is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A steam generating unit is not a temporary boiler if any one of the following conditions exists:
 - i. The equipment is attached to a foundation.
 - ii. The steam generating unit or a replacement remains at a location for more than 180 consecutive days. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
 - iii. The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
 - iv. The equipment is moved from one location to another in an attempt to circumvent the residence time requirements of this definition.

[40 CFR 60.41c]

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

- c. The Permittee shall maintain, and make available upon request, the following records:
 - i. the first, last and total number of days the boiler is on site for each consecutive time period the boiler is brought on site;
 - ii. the function of the boiler for each consecutive time period; and
 - iii. if distillate oil is combusted, the sulfur content or maximum sulfur content of the oil.

The records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02Q

.0317 if these recordkeeping requirements are not met or the boiler does not meet the definition of a temporary boiler as defined in Section 2.1 F.4.b above.

**5. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for
15A NCAC 02D .1111: MAXIMUM AVAILABLE CONTROL TECHNOLOGY**

- a. In order to avoid the applicability of Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Available Control Technology" (MACT) as promulgated in 40 CFR Part 63 Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters," the Permittee shall operate the emission source (**ID No. TEMP-BNG-1**) as a temporary boiler as defined in 40 CFR 63.7575. [40 CFR 63.7491(j)]
- b. Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler or process heater is not a temporary boiler or process heater if any one of the following conditions exists:
 - i. The equipment is attached to a foundation.
 - ii. The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
 - iii. The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
 - iv. The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.[40 CFR 63.7575]

Recordkeeping [15A NCAC 02Q 0508(f)]

- c. The Permittee shall maintain, and make available upon request, the following records:
 - i. the first, last and total number of days the boiler is on site for each consecutive time period the boiler is brought on site and;
 - ii. the function of the boiler for each consecutive time period.

The records shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .0317 if these recordkeeping requirements are not met or the boiler does not meet the definition of a temporary boiler as defined in Section 2.1 F.5.b above.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	State enforceable only Odorous emissions must be controlled	15A NCAC 02D .1806

State Enforceable Only

1. **15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

The Permittee shall not cause, allow, or permit the emission sources to be operated without employing suitable measures for the control of odorous emissions.

SECTION 3 - INSIGNIFICANT ACTIVITIES PER 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description
I-Roads	Haul Roads
IES-GTS-1	1,000 gallon above ground gasoline storage tank
IES-DST-1	10,000 gallon above ground diesel storage tank
IES-UOST-1	1,000 gallon above ground used oil storage tank
IF-S-1	Holtec saw
IF-SB-1	Shavings bin
IF-SB-2	Shavings bin (Wood Residuals Hogged Planer) completely enclosed
IF-SB-3	Sawdust bin completely enclosed
IF-TB	Top loading truck bin
IES-Fug-L1-2	Log sawing operation
IES-FP-2 MACT ZZZZ, NSPS IIII	Diesel-fired emergency fire water pump (183 brake horsepower)
IES-EG-1 MACT ZZZZ	Diesel-fired emergency generator (166 brake horsepower)
IES-PILES	Roundwood, bark, and fuel storage piles
IES-Ash handling	Ash Storage/Handling

¹ Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement (Federal or State) or that the Permittee is exempted from demonstrating compliance with any applicable requirement.

² When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit."

SECTION 4 - GENERAL CONDITIONS (version 7.0, 08/21/2023)

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

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
 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 02Q .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(s) 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 Environmental Quality upon request.
- C. **Severability Clause** [15A NCAC 02Q .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 02Q .0507(e) and 02Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:
- Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641
- All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).
- E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]
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. **Title V Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements [15A NCAC 02Q .0508(f)]
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A. Reporting Requirements for Excess Emissions [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. "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 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)
2. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
3. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .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 02D .0535(f)(3).

I.B. Reporting Requirements for Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. "Permit 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.
2. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) quarterly by notifying the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535. 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.C. Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .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 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .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. RESERVED

K. Permit Renewal [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .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 02Q .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 02Q .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 02Q .0508(f) and 02Q .0508(l)]

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

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all terms and conditions in the permit (including emissions limitations, standards, or work practices), except for conditions identified as being State-enforceable Only. 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;
4. the method(s) used for determining the compliance status of the source during the certification period;
5. each deviation and take it into account in the compliance certification; and
6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

Q. **Certification by Responsible Official** [15A NCAC 02Q .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 02Q .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 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .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 02Q .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 02Q .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 02Q .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 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. 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 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .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 02Q .0107 and 02Q .0508(i)(9)]
Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .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 02Q .0107.
- Z. **Construction and Operation Permits** [15A NCAC 02Q .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 02Q .0100 and .0300.
- AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]
The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.
- BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .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 02Q .0501(d)]
 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 02Q .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. **National Emission Standards Asbestos – 40 CFR Part 61, Subpart M** [15A NCAC 02D .1110]
The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.
- FF. **Title IV Allowances** [15A NCAC 02Q .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 02D .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 02D .0300.
- HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
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 02D .0202(b).
- II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .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 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in 15A NCAC 02D .2600 if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the DAQ to conduct independent tests of any source subject to a rule in 15A NCAC 02D to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in 15A NCAC 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .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 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .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 02Q .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 02Q .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. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

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

NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (Air Permitting Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) in writing at least seven days before the change is made.
 - a. The written notification shall include:
 - i. a description of the change at the facility;
 - 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.
 - b. In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal EPA, EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.