ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

Enter Calendar Date

Mr. Thomas Clift
Plant Manager
Craven County Wood Energy, L.P.
201 Executive Parkway
New Bern, North Carolina 28562

SUBJECT: Air Quality Permit No. 06419T29
Facility ID: 2500158
Craven County Wood Energy, L.P.
New Bern
Craven County
Fee Class: Title V
PSD Status: Major

Dear Mr. Clift:

In accordance with your completed Air Quality Permit Application for renewal of your Title V permit, we are forwarding herewith Air Quality Permit No. 06419T29 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 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.

Craven County has triggered increment tracking under PSD for PM_{10}, SO_2, 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 Eric L. Crump, P.E. at (919) 707-8470 or eric.crump@deq.nc.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)
Laserfische
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. 06419T28:*

Page No.	Section	Description of Changes
Cover and throughout	---	• Updated all dates and permit revision numbers • Changed each instance of "Weyerhaeuser sludge" to "Paper plant sludge"
Insignificant Activities List	Attachment	Moved to Section 3 of permit
2	Table of Contents	• Removed Section 2.5, Permit Shield • Changed Section 3 from "General Conditions" to "Insignificant Activities per 15A NCAC 02Q .0503(8)" • Added new Section 4, "General Conditions"
3	List of Acronyms	Relocated here (formerly last page of permit)
4	1	• Changed horsepower output of emergency fire pump ES-11 from 250 hp to 196 hp • Removed footnote regarding second step of 02Q .0501(c)(2) modification for boiler ES5A
5	2.1 A 2.1 A.1 2.1 A.1.c	Updated format of limits/standards table Updated section to reflect the most current stipulations for 15A NCAC 02D .0515 Modified text to clarify that the hammer mill and wood reclaim conveyer are part of the wood handling and storage operations (ID No. FA)
6	2.1 A.1.d, f 2.1 A.1.g	Modified text to clarify that the hammer mill and wood reclaim conveyer are part of the wood handling and storage operations (ID No. FA) Updated to reflect the most current stipulations for 15A NCAC 02D .0515
7	2.1 A.2.e 2.1 A.3.b	Updated to reflect the most current stipulations for 15A NCAC 02D .0521 • Added source ID number for wood handling and storage operations • Updated to reflect current permit format for noncompliance statements
8	2.1 A.3.f	Updated to reflect the most current stipulations for 15A NCAC 02D .0530
9	2.1 B	• Deleted controls from boiler description (for consistency with rest of permit) • Updated format of limits/standards table • Added "excluding biomass combustion" to summary of limits/standards for NO_X (02D .0519) in limits/standards table • Deleted Subpart BBBBB from list of applicable regulations for SO_2 and NO_X in limits/standards table
10	2.1 B.2.b 2.1 B.2.c	Added description of variable "E" in emissions rate equation Changed "this source to "the boiler (ID No. ES5A)

Page No.	Section	Description of Changes
11	2.1 B.2.g	Added new paragraph g stating no reporting required for combustion of used oil, natural gas, or propane. Re-lettered subsequent two paragraphs accordingly.
	2.1 B.2.i	Updated to reflect the most current stipulations for 15A NCAC 02D .0503
	2.1 B.3.a	Deleted the phrase "or wood in combination with other fuels (i.e. biomass fuel alone or in combination with used oil, natural gas, and/or propane)" from this paragraph.
	2.1 B.4.b	Inserted "JJ" into the first sentence after the words "General Condition"
	2.1 B.4.d	Inserted the word "Sections" in front of paragraph numbers
12	2.1 B.5.b	Inserted "JJ" into the first sentence after the words "General Condition"
	2.1 B.6	Updated section to reflect the most current stipulations for 15A NCAC 02D .0524 (40 CFR 60, Subpart Db)
14	2.1 B.7.c	Updated section to reflect the most current stipulations for 15A NCAC 02D .0530
	2.1 B.8	• Deleted stipulation for 15A NCAC 02Q .0504, "Option for Obtaining Construction and Operation Permit." Renumbered subsequent paragraphs accordingly. • Updated section (formerly 2.1 B.9) to reflect the most current stipulations for 15A NCAC 02D .0614
15	2.1 B.9	Updated section to reflect the most current stipulations for 15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJJJ)
18	2.1 B.10	Added new section with stipulations for 15A NCAC 02D .1425 NO_X SIP Call Budget
19	2.1 C	• Changed horsepower output of emergency fire pump ES-11 from 250 hp to 196 hp • Updated format of limits/standards table
	2.1 C.3	Updated section to reflect the most current stipulations for 15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)
23	2.2 A	Updated format of limits/standards table
	2.2 A.1.a	• Added date of most recent approved air toxic compliance demonstration • Defined "AAL" as "acceptable ambient level" • Reformatted toxic pollutant table to list toxics in alphabetical order
26	2.2 A.1.c.v	Updated to January 2013 version of the NC DAQ Toxics Protection Branch Recycled Oil Management Plan
	2.2 A.1.d	Minor edits for clarity made to this section
	2.2 A.1.e	Updated to reflect the most current stipulations for 15A NCAC 02D .1100

Page No.	Section	Description of Changes
27	2.2 A.3 2.2 A.3.d 2.2 A.3.e	Updated to reflect the most current stipulations for 15A NCAC 02D .0317 (avoidance conditions for MACT) Removed styrene emissions equation Added new paragraph establishing requirements for changing emission factors, and re-lettered subsequent paragraphs
28	2.2 A.3.g	Deleted requirement to maintain record of applicability determination onsite
29	2.3 2.3 D 2.4 2.5	• Changed expiration date of acid rain permit to coincide with expiration of Title V air permit • Changed all references to "Department of Environmental Quality and Natural Resources" to "Department of Environmental Quality" Changed reference to most recent acid rain permit application submittal date • Changed all references to "TR" in first paragraph to "CSAPR" • Deleted mention of Subpart BBBB Deleted permit shield section
30	3	• Section 3 is now "Insignificant Activities per 15A NCAC 02Q .0503(8)" • Added source ID Nos. I11 and I12 (two poultry litter storage buildings) to insignificant activities list
31-39	4	Updated General Conditions to Version 6.0 dated January 7, 2022
40-43	Attachment	Attached Acid Rain Permit Application for Craven County Wood Energy, LP, dated October 13, 2022

* 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
06419T29	06419T28	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:	**Craven County Wood Energy, L.P.**
Facility ID:	**2500158**
Primary SIC Code:	**4911**
NAICS Code:	**221119**
Facility Site Location:	**201 Executive Parkway**
City, County, State, Zip:	**New Bern, Craven County, North Carolina 28562**
Mailing Address:	**201 Executive Parkway**
City, State, Zip:	**New Bern, North Carolina 28562**
Application Number(s):	**2500158.22B and 2500158.21B**
Complete Application Date(s):	**February 21, 2022 and August 26, 2021, respectively**
Division of Air Quality, Regional Office Address:	**Washington Regional Office** **North Carolina Division of Air Quality** **943 Washington Square Mall** **Washington, North Carolina 27889**

Permit issued this the XX day of XXXXX, 2023

_____

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

Table of Contents

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
PM_{10}	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
SO_2	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
F6A-1 **PSD**	Bottom ash handling system	N/A	N/A
F6A-2 **PSD**	Fly ash handling system	N/A	N/A
FA **PSD**	Wood handling and storage operations	N/A	N/A
ES5A **NSPS Db** **PSD** **GACT JJJJJJ**	One boiler (666 million Btu per hour maximum heat input rate) fired on: • Biomass fuel consisting of: o Clean cellulosic biomass* o Creosote treated wood o Mold inhibitor treated wood o Plywood trimmings o Particle board o Paper plant sludge o Brooder/grow out house poultry litter • Natural gas (startup fuel only) • Propane (startup fuel only) • Used oil (onsite generation only)	CD5A-1 CD5A-2	Multicyclone (56 twenty-four inch diameter tubes) Electrostatic precipitator (122,000 square feet of collection plate area)
ES-11 **GACT ZZZZ**	One diesel-fired emergency fire pump (196 horsepower maximum rated power output)	N/A	N/A
ES-12 **GACT ZZZZ**	One diesel-fired emergency generator (175 kilowatt maximum rated power output)	N/A	N/A

* *Clean cellulosic biomass* fuel must meet the definition as provided in 40 CFR Part 241.2, or it must be approved as a non- hazardous secondary material (NHSM) biomass fuel by EPA in accordance with 40 CFR Parts 241.3 and 241.4.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Bottom ash handling system (ID No. F6A-1); Fly ash handling system (ID No. F6A-2); and Wood handling and storage operations (ID No. FA)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E=4.10 \times P^{0.67}$, for process rates $\leq$ 30 tons per hour, OR $E=55 \times P^{0.11} - 40$, for process rates > 30 tons per hour Where: E = allowable emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 02D .0515
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Particulate Matter and Visible Emissions	Best Available Control Technology	15A NCAC 02D .0530
Odors	**State Enforceable Only** **See Section 2.2 A.2**	15A NCAC 02D .1806

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

a. Emissions of particulate matter from the bottom ash handling system (**ID No. F6A-1**), the fly ash handling system (**ID No. F6A-2**), and the wood handling and storage operations (**ID No. FA**) shall not exceed an allowable emission rate as calculated by the following equations:

$E = 4.10 \times P^{0.67}$ (for process rates less than or equal to 30 tons per hour), or
$E = 55.0 \times P^{0.11} - 40$ (for process rates greater than 30 tons per hour)

Where: E = Allowable emission rate in pounds per hour
P = Process weight in tons per hour

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

Testing [15A NCAC 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.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

c. To ensure compliance, bottom ash and fly ash from the boiler (**ID No. ES5A**) shall be conveyed in the ash handling systems (**ID Nos. F6A-1 and F6A-2**) and the wood waste shall be conveyed within the wood handling and storage operations **(ID No. FA)** from the hammer mill in the wood reclaim conveyor to storage areas via enclosed systems such that particulate matter emissions are minimized. In addition, the Permittee shall utilize the following dust suppression techniques to minimize particulate emissions:
   i Water quenching of bottom ash after discharge from the grate of the boiler (**ID No. ES5A**);
   ii. Enclosed dust collectors and water suppression system on the fly ash handling system (**ID No. F6A-2**), and
   iii. Partial enclosed conveyors and transfer towers wherein all transfer points are closed, on the wood reclaim conveyor.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these control requirements are not operated as specified.

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

d. To ensure compliance, the Permittee shall establish an inspection and maintenance schedule/checklist and perform such inspections and maintenance on the ash handling systems (**ID Nos. F6A-1 and F6A-2**), and the hammer mill and the wood reclaim conveyor within the wood handling and storage operations **(ID No. FA)** 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:
   i. A monthly external inspection of the enclosed work area around the hammer mill, enclosed conveyors, and transfer towers to ensure that covers are properly fitted;
   ii. A monthly external inspection of the bottom ash handling system to ensure structural integrity; and
   iii. A monthly external inspection of the water spray dust suppression system on the fly ash handling system.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ash handling systems, the hammer mill, and the wood reclaim conveyor are not inspected and maintained.

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

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.

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

f. The Permittee shall submit a report of maintenance performed on the ash handling systems (**ID Nos. F6A-1 and F6A-2**), the hammer mill, and the wood reclaim conveyor within the wood handling and storage operations **(ID No. FA)** within 30 days of a written request by the DAQ.

g. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 A.1.d and e 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 the wood handling and storage operations (**ID No. FA**), the bottom ash handling system (**ID No. F6A-1**), and the fly ash handling system (**ID No. F6A-2**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. To ensure compliance, once per week the Permittee shall observe the emission points of these sources 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 any of these sources are observed to be above normal, the Permittee shall either:
   i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.
   iii. For the bottom ash handling system **(ID No. F6A-1)** and the fly ash handling system **(ID No. F6A-2)**, the Permittee shall perform the monitoring, recordkeeping, and reporting requirements found in Section 2.1 A.3.d, below.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made or if (iii) is not preformed, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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 monitoring and recordkeeping activities given in Sections 2.1 A.2.c and d above postmarked on or before by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

a. The Permittee shall comply with the following "Best Available Control Technology" (BACT) requirements and emission limits, as applicable, for the wood handling and storage operations (**ID No. FA**), the bottom ash handling system (**ID No. F6A-1**), and the fly ash handling system (**ID No. F6A-2**):

Emission Source	Pollutant	Requirement/Emission Limit
Wood handling and storage operations (**ID No. FA**)	Particulate matter (PM)	Work practices and equipment design
Bottom ash handling system (**ID No. F6A-1**)	Visible emissions	0 percent
Fly ash handling system (**ID No. F6A-2**)		

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

b. The Permittee shall control emissions of particulate matter from the wood handling and storage operations (**ID No. FA**) as follows:
   i. Wood deliveries shall be made in a covered truck and discharged into one of two hydraulic dumpers equipped with sidewall curtains;
   ii. The wood reclaim conveyor shall be covered and all transfer points shall be enclosed;
   iii. Wood unloading onto storage pile shall utilize enclosed telescoping chutes kept as close to receiving pile as possible when dumping; and
   iv. For traffic on wood storage pile and wind erosion from wood storage pile, the high moisture content of the stored wood and the coarse wood cover will be utilized to reduce fugitive emissions.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these control requirements are not performed.

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

c. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements for the wood handling and storage operations (**ID No. FA**) found in Section 2.1 A.1.d through f above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these monitoring, recordkeeping, and reporting requirements are not performed.

d. To ensure compliance, once per week the Permittee shall observe the emission points of the bottom ash handling system (**ID No. F6A-1**) and the fly ash handling system (**ID No. F6A-2**) for any visible emissions utilizing 40 CFR Part 60, Appendix A - Method 22. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If any visible emissions are observed from either of these sources, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0530.

e. The results of the visible emissions 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 .0530 if these records are not maintained.

f. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 A.3.c, d, and e 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. One boiler (666 million Btu per hour maximum heat input rate; ID No. ES5A) fired on:

- **Biomass fuel consisting of:**
  - **Clean cellulosic biomass**
  - **Creosote treated wood**
  - **Mold inhibitor treated wood**
  - **Plywood trimmings**
  - **Particle board**
  - **Paper plant sludge**
  - **Brooder/grow out house poultry litter**
- **Natural gas (startup fuel only)**
- **Propane (startup fuel only)**
- **Used oil (onsite generation only)**

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	***POS: - firing wood only or wood in combination with other fuels*** Ec = [(0.274)(Qw) + (0.202)(Qo)]/Qt Where: Ec = emission limit (lb PM/million Btu) Qw = actual wood heat input rate (million Btu per hour) Qo = actual other fuel heat input rate (million Btu per hour) Qt = actual total heat input (i.e. Qt = Qw + Qo) ***AOS: - firing any combination of fuels that does not include wood*** 0.202 pounds of PM per million Btu heat input	15A NCAC 02D .0503
	POS: - firing wood only 0.274 pounds of PM per million Btu heat input *(wood only)*	15A NCAC 02D .0504
Sulfur Dioxide	2.3 pounds of SO_2 per million Btu heat input	15A NCAC 02D .0516
Nitrogen Oxides	0.8 pounds per million Btu heat input (*excluding biomass combustion)*	15A NCAC 02D .0519
Sulfur Dioxide and Nitrogen Oxides	**See Section 2.3** Acid Rain Program –	15A NCAC 02Q .0400
	See Section 2.4 Cross State Air Pollution Rules Permit Requirements	40 CFR Part 97, Subparts AAAAA and CCCCC
Particulate Matter	0.10 pounds of PM per million Btu heat input	15A NCAC 02D .0524 [40 CFR 60, Subpart Db]
Nitrogen Oxides	Annual capacity factor for natural gas and propane, combined, shall not exceed 10 percent (0.10)	
Visible Emissions	20 percent opacity	
Particulate Matter, Volatile Organic Compounds, Nitrogen Oxides, and Carbon Monoxide	Best Available Control Technology	15A NCAC 02D .0530
Particulate Matter	Compliance Assurance Monitoring	15A NCAC 02D .0614
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 02D .1100

Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutants	40 CFR Part 63, Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers	15A NCAC 02D .1111
Nitrogen Oxides	Report NOx emissions	02D .1425
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 02D .1806
Hazardous Air Pollutants	**See Section 2.2 A.3** Less than 10 tons per year of any HAP and less than 25 tons per year of a combination of HAPs	15A NCAC 02Q .0317 MACT Avoidance

POS - Primary Operating Scenario, AOS - Alternative Operating Scenario

1. ALTERNATE OPERATING SCENARIOS [15A NCAC 02Q .0508(j)(1)]
The Permittee, contemporaneously with making a change from one operating scenario to another, shall record in a logbook (written or electronic format) the scenario under which it is operating. [15A NCAC 02Q .0508(j)(1)]

POS -firing wood fuel in combination with other fuels
AOS-firing any combination of fuels that does not include wood

2. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of any combination of fuels that does not include biomass fuel (i.e. used oil, natural gas, and/or propane only) that are discharged from the boiler (**ID No. ES5A**) into the atmosphere shall not exceed 0.202 pounds per million Btu heat input.

b. Emissions of particulate matter from the combustion of wood only or wood in combination with other fuels (i.e. biomass fuel alone or in combination with used oil, natural gas, and/or propane) that are discharged from the boiler (**ID No. ES5A**) into the atmosphere shall not exceed an allowable emission rate as calculated by the following equation:

$$E = \left[\frac{(0.274 \times Q_W) + (0.202 \times Q_O)}{Q_W + Q_O}\right]$$

Where: E = allowable emission rate in pounds per million Btu;
Q_W = actual wood heat input rate, in million Btu per hour; and
Q_O = actual combined heat input rate of all fuels other than wood, in million Btu per hour

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

c. The Permittee shall perform the testing requirements for the boiler **(ID No. ES5A)** found in Section 2.1 B.6.c, below. If the results of that test are above the limit given in Section 2.1 B.2.a or b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

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

d. No monitoring or recordkeeping is required for particulate emissions from the combustion of used oil, natural gas, and/or propane in this source.

e. Particulate matter emissions from this source shall be controlled by the multicyclone (**ID No. CD5A-1**) in series with the electrostatic precipitator (ESP) (**ID No. CD5A-2**). To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance as recommended by the manufacturers. In addition to the manufacturers' 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:
   i A monthly external visual inspection of the system duct work and the material collection units for leaks and of the critical components of the ESP such as rappers and the ash screw conveyor;
   ii. A weekly check for any ESP equipment that does not generate an alarm in the turned-off state, to ensure it is switched on; and

iii. An annual (for each 12-month period from initial inspection) internal inspection of the multicyclone's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if the multicyclone, ESP, and ductwork are not inspected and maintained.

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

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503 if these records are not maintained.

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

g. No reporting is required for particulate emissions from the combustion of used oil, natural gas, and/or propane in this source.
h. The Permittee shall submit the results of any maintenance performed on the multicyclone and the ESP within 30 days of a written request by the DAQ. All instances of deviations from the manufacturers' recommendations for maintenance of the multicyclone and the ESP must be clearly identified.
i. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 B.2.e through h above postmarked on or before by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. All instances of deviations from the manufacturers' recommendations for maintenance of the multicyclone and the ESP must also be clearly identified.

POS -firing wood fuel only

3. 15A NCAC 02D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of wood only or wood in combination with other fuels (i.e. biomass fuel alone or in combination with used oil, natural gas, and/or propane) that are discharged from the boiler (**ID No. ES5A**) into the atmosphere shall not exceed 0.274 pounds per million Btu heat input.

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

b. The Permittee shall perform the testing requirements for this source found in Section 2.1 B.6.c below. If the results of that 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 .0504.

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

c. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements for the boiler (**ID No. ES5A**) found in Section 2.1 B.2.e through h above.

4. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide (SO_2) from the boiler (**ID No. ES5A**) 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.4.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 SO_2 emissions from the combustion of biomass fuel, natural gas, and/or propane, in this source.
d. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements found in Sections 2.2 A.1.c.iv and v, Sections 2.2 A.1.d.i and iv, and Sections 2.2 A.1.e and f below, for SO_2 emissions from the

combustion of used oil in this boiler (**ID No. ES5A**). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if these monitoring, recordkeeping, and reporting requirements are not performed.

5. 15A NCAC 02D .0519: CONTROL OF NITROGEN DIOXIDE AND NITROGEN OXIDE EMISSIONS

a. Emissions of nitrogen oxides from the boiler (**ID No. ES5A**) shall not exceed 0.8 pounds per million Btu heat input while burning natural gas, propane, and/or used oil.

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.5.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0519.

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

c. No monitoring, recordkeeping, or reporting is required for emissions of nitrogen oxides from the firing of natural gas, propane, and/or used oil in this source.

6. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart Db "Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units" including Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 60.41b shall apply. [40 CFR 60.41b]

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

c. The following emission standards apply to the boiler **(ID No. ES5A)**.
   i. For PM emissions from this source:
      (A) The Permittee shall limit PM emissions to less than or equal to 0.1 pounds per million Btu heat input. [40 CFR 60.43b(c)(1)]
      (B) The Permittee shall operate this source such that the annual capacity factor for wood is greater than 30 percent (0.30). [40 CFR 60.43b(c)(1)]
      (C) The Permittee shall limit visible emissions such that they do not exceed 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)]
      (D) The PM and opacity standards apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43b(g)]
   ii. To avoid the applicability of the NOx emission standards at 40 CFR 60.44(b), the Permittee shall operate this source such that the annual capacity factor for natural gas, propane and used oil (or any combination of the three) is 10 percent (0.10) or less. [40 CFR 60.43b(l)(1)]

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

d. The following testing requirements apply:
   i. If emissions testing is required, the testing shall be performed in accordance with 40 CFR Parts 60.45b and 60.46b.
   ii. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits listed in Section 2.1 B.6.c.i(A) above on a five-year basis by testing the boiler in accordance with 40 CFR Parts 60.45b and 60.46b. Each test shall be conducted within 61 months of the previous test.
   iii. At least forty-five (45) days prior to performing the testing in (ii) above, the Permittee shall submit to the Washington Regional Supervisor, DAQ a testing protocol and request review and approval of the testing protocol prior to testing. The testing in (ii) above shall be performed in accordance with a testing protocol pre-approved by the DAQ.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the results of the test are above the limit given Section 2.1 B.6.c.i(A) above or if these testing requirements above are not met.

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

e. The following monitoring requirements apply:
   i. The Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. [40 CFR 60.48b(a)]
   ii. The Permittee shall follow procedures under 40 CFR 60.13 for installation, evaluation, and operation of the COMS. The span value for the COMs shall be between 60 and 80 percent. [40 CFR 60.48b(e)]
   iii. The Permittee shall meet the requirements of 15A NCAC 02D .0611 and 15A NCAC 02D .0613 as applicable.

The Permittee shall be deemed in noncompliance with 02D .0524 if these monitoring requirements are not met or if the opacity standard in Section 2.1 B.6.c.i(C) is exceeded.

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

f. The following recordkeeping requirements apply:
   i. The Permittee shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]
   ii. The annual capacity factor for each fuel shall be determined by dividing the actual heat input to the steam generating unit during each 12-month period from the combustion of each fuel identified in **Sections 2.1 B.6.c.i and ii** by the potential heat input to the steam generating unit if the steam generating unit had been operated for 8,760 hours at the maximum heat input capacity. [40 CFR 60.43b(e)]
   ii. The Permittee shall maintain records of opacity. [40 CFR 60.49b(f)]
   iii. The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]
   iv. The Permittee shall maintain records of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]
   v. The Permittee shall maintain all records for a period of 2 years following the date of such record. [40 CFR 60.49b(o), 60.7(f)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these recordkeeping requirements are not met or the annual capacity factor requirements in Section 2.1 B.6.c are not met.

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

g. The following reporting requirements apply:
   i. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 B.6.e and f 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.
   ii. The report shall also include an excess emissions and monitoring systems performance report. [40 CFR 60.49b(h)] The report shall contain the information required pursuant to 40 CFR 60.7(c) and (d). Excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards under 40 CFR 60.43b(f). [40 CFR 60.49b(h)(3)] The emissions and monitoring system performance results shall be calculated on a quarterly basis. [40 CFR 60.7(c)] The format for the report will be provided by the DAQ. If this reporting requirement is not met, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

7. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. The Permittee shall comply with the following "Best Available Control Technology" (BACT) emission limits for the boiler (**ID No. ES5A**):

Emission Source	Pollutants	Emission Limits
Boiler (**ID No. ES5A**)	Particulate matter (PM)	0.041 pounds per million Btu heat input
	Volatile Organic Compounds (VOC)	0.077 pounds per million Btu heat input
	Carbon Monoxide (CO)	0.66 pounds per million Btu heat input
	Nitrogen Oxides (NO_X)	0.35 pounds per million Btu heat input

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

b. The Permittee shall perform the testing requirements found in Section 2.1 B.6.d above, for particulate matter emissions from this boiler (**ID No. ES5A**). If the results of that test are above the associated limit given in Section 2.1 B.7.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. If emissions testing is required for VOC, CO, and/or NO_X emissions from this boiler (**ID No. ES5A**), the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the associated limit given in Section 2.1 B.7.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

d. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements for this boiler (**ID No. ES5A**) found in Section 2.1 B.2.e through h above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these monitoring, recordkeeping, and reporting requirements are not performed.

8. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING

a. For the electrostatic precipitator **(ID No. CD5A-2)** associated with boiler **(ID No. ES5A)**, the Permittee shall comply with 40 CFR part 64 pursuant to 15A NCAC 02D .0614 to ensure that the boiler complies with the emission limits of 15A NCAC 02D .0504, 02D .0503, 02D .0524 and 02D .0530.

Background

b. Emission Units: Boiler **(ID No. ES5A)**

c. Applicable Regulation, Emission Limitation, and Monitoring Requirements
   i. Regulations:
      (A) 15A NCAC 02D .0503, Indirect Heat Particulates from Wood Burning Exchangers
      (B) 15A NCAC 02D .0504: Particulates from Wood Burning Exchangers
      (C) 15A NCAC 02D .0524, New Source Performance Standards
      (D) 15A NCAC 02D .0530, Prevention of Significant Deterioration
   ii. Emission Limits:
      (A) PM: $Ec = [(0.274)(Q_W)+(0.202)(Q_O)]/Q_T$, Wood and Other Fuels
      (B) PM: 0.274 pounds of particulate matter per million Btu, Wood Only
      (C) PM: 0.10 pounds of particulate matter per million Btu
      (D) PM: 0.041 pounds of particulate matter per million Btu, Wood Only
   iii. Control Technology: ESP **(ID No. CD5A-2)** and multicyclone (**ID No. CD5A-1**)

Monitoring Approach

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

Measure	Indicator
I. Indicator	Opacity of ESP exhaust
Measuring approach	Continuous opacity monitoring system (COMS) in ESP exhaust

Measure	Indicator
II. Indicator Range	The opacity indicator range for the ESP is a 1-hour average opacity of 20 percent. An excursion occurs when any 1-hour average opacity is greater than 20 percent. The excursion triggers corrective action and reporting requirement.
QIP Threshold	The Quality Improvement Plan (QIP) threshold is when the total duration of opacity excursions is greater than 5 percent of the source operating time during any 6-month period. The QIP shall be prepared as required under 40 CFR 64.8.
III. Performance Criteria	
A. Data Representativeness	The COMS is installed at a representative location in the boiler ESP exhaust stack per 40 CFR 60, Appendix B, Performance Specification (PS-1).
B. Verification of Operational Status	NA
C. Quality Assurance and Control Practices and Criteria	The COMS was initially installed and evaluated per PS-1. Zero and span drift are checked daily, and a quarterly filter audit is performed.
D. Monitoring Frequency	The opacity of the ESP exhaust is monitored continuously (every 10 seconds) using COMS
E. Data Collection Procedures	The data acquisition system shall retain all 6-minute opacity data.
F. Averaging Period	The 10-second opacity data are used to calculate the 6-minute averages according to PS-1.

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

e. The Permittee shall submit a summary report of all monitoring activities given in Section 2.1 B.8.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. In addition, the summary report shall contain 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.

9. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.11193, 63.11194(a), (b), 63.11200]

a. For this source (an existing boiler in the biomass subcategory, **ID No. ES5A)**, the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, “Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart JJJJJJ, (GACT JJJJJJ) "National Emission Standards for Hazardous Air

Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers", including Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.11237 shall apply.

General Provisions

c. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart JJJJJJ. [40 CFR 63.11235]

Compliance Dates

d. The Permittee shall achieve compliance with the initial tune up requirement no later than March 21, 2014. [40 CFR 63.11196(a)(1), 63.11210(c)] *This requirement was met February 24, 2014.*

e. The Permittee shall comply with the energy assessment requirement no later than March 21, 2014. [40 CFR 63.11196(a)(3)] *This requirement was met February 28, 2014.*

Notification of Compliance Status [40 CFR 63.11225)]

f. The Permittee shall submit a Notification of Compliance Status no later than July 19, 2014.
   i. The Notification of Compliance Status must be signed by a responsible official and include the following certifications of compliance:
      (A) "This facility complies with the requirements in 40 CFR 63.11214 (i.e., Section 2.1 B.9.h) to conduct an initial tune-up of the boiler."
      (B) "This facility has had an energy assessment performed according to Table 2 to this subpart (i.e., Sections 2.1 B.9.i and j) and is an accurate depiction of the facility."
      (C) "No secondary materials that are solid waste were combusted in any affected unit."
   ii. The notification must be also submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 B.9.f are not met.

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

g. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. 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. [40 CFR 63.11205(a)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements in are not met.

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

h. The Permittee shall conduct a tune-up biennially of the boiler while burning the type of fuel (or fuels in the case of boilers that routinely burn a mixture) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up, as specified below.
   i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
   ii. 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.
   iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.

iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
v. 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.
vi. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

[40 CFR 63.11201(b), Table 2 to GACT JJJJJJ, 40 CFR 63.11223(a), (b)]
Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. [40 CFR 63.11223(b)]
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these work practice requirements in Sections 2.1 B.9.h and i are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(b)]

i. The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. [40 CFR 63.11201(b), Table 2 to GACT JJJJJJ] *This requirement was met February 28, 2014.*

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

j. The Permittee shall:
i. As required in 40 CFR 63.10(b)(2)(xiv), keep a copy of each notification and report that was submitted to comply with this rule and all documentation supporting any Notification of Compliance Status that was submitted. [40 CFR 63.11225(c)(1)]
ii. keep records to document conformance with the performance tune-ups: The records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. [40 CFR 63.11225(c)(2)(i)]
iii. maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (A) through (C) below:
(A) The concentrations of CO 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.
(B) A description of any corrective actions taken as a part of the tune-up of the boiler.
(C) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, 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 63.11223(b)(6)]
iv. keep a copy of each boiler energy assessment report. [40 CFR 63.11225(c)(2)(iii)]
v. keep records of the occurrence and duration of each malfunction of the boiler or of the associated air pollution control and monitoring equipment. [40 CFR 63.11225(c)(4)]
vi. keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Section 2.1 B.9.g, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11225(c)(5)]
vii. For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), the Permittee shall keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If fuel is combusted that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), the Permittee shall keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2 and each of the legitimacy criteria in 40 CFR 241.3(d)(1). If the fuel received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), the Permittee shall keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, the Permittee shall keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a).
[40 CFR 63.11225(c)(2)(ii)]
viii. keep:
(A) records in a form suitable and readily available for expeditious review;
(B) each record for 5 years following the date of each recorded action;
(C) each record on-site or accessible from a central location by computer or other means that instantly provides access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years.

[40 CFR 63.11225(d)]

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

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

k. The reporting requirements of 40 CFR 63.11225(b) shall be met by complying with General Condition P of Section 4 of this permit.

10. 15A NCAC 02D .1425 NOX SIP CALL BUDGET

The Permittee shall submit a report to DAQ no later than January 30 of the calendar year after the NOx SIP Call control period listing the NOx emissions from this boiler (**ID No. ES5A)** during the NOx SIP Call control period. The NOx emissions in this report shall be determined in accordance with 40 CFR Part 75 for electrical generating units (EGUs). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1425 if these requirements are not met.

C. One diesel-fired emergency fire pump (196 horsepower maximum rated power output; ID No. ES-11); and One diesel-fired emergency generator (175 kilowatt maximum rated power output; ID No. ES-12)

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

Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide (SO_2)	2.3 pounds of SO_2 per million Btu heat input	15A NCAC 02D .0516
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous Air Pollutants	**See Section 2.1 C.3** 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	15A NCAC 02D .1111
Odors	**State Enforceable Only** **See Section 2.2 A.2**	15A NCAC 02D .1806

1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from the emergency reciprocating internal combustion engines (RICE) (**ID Nos. ES-11 and ES-12**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 02D .0516]

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.1.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 emergency RICE (**ID Nos. ES-11 and ES-12**).

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

a. Visible emissions from the emergency RICE (**ID Nos. ES-11 and ES-12**) 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 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, or reporting is required for visible emissions from the emergency RICE (**ID Nos. ES-11 and ES-12**).

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

Applicability [40 CFR 63.6585, 63.6590(a)(1)(iii)]

a. For these emission sources (**ID Nos. ES-11 and ES-12,** existing stationary RICE located at an area source of HAP emissions), 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 ZZZZ—National

Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.6675 shall apply.

Applicability Date [40 CFR 63.6595(a)(1)]

c. The Permittee shall comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013.

Notifications [40 CFR 63.6645(a)(5)]

d. The Permittee has no notification requirements.

General Provisions [40 CFR 63.6665]

e. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart ZZZZ.

Operating and Maintenance Requirements [15A NCAC 02Q .0508(b)]

f. During periods of startup of the internal combustion (IC) engine, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6603(a), Table 2d to 40 CFR 63 Subpart ZZZZ and 40 CFR 63.6625(h)]

g. Except during periods of startup of the IC engine, the Permittee shall:
   i. Change oil and filter every 500 hours of operation or annually, whichever comes first;
   ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
   iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary

   [40 CFR 63.6603(a), Table 2d to 40 CFR 63 Subpart ZZZZ]

h. The Permittee shall have the option to utilize the oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in Section 2.1 C.3.g. [40 CFR 63.6603(a), Table 2d to 40 CFR 63 Subpart ZZZZ,63.6625(i)]

i. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Section 2.1 C.3.g, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State, or local law under which the risk was deemed unacceptable. [40 CFR 63.6603(a), Table 2d to 40 CFR 63 Subpart ZZZZ]

j. The Permittee shall be in compliance with the emission limitations, operating limitations and other requirements that apply at all times. [40 CFR 63.6605(a)]

k. The Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which 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. [40 CFR 63.6605(b)]

l. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) and 63.6640(a), Table 6 to 40 CFR 63 Subpart ZZZZ]

m. In order for the engine to be considered an emergency stationary RICE as defined in Section 2.1 C.3.b, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Sections 2.1 C.3.m.i. through iii. below, is prohibited.
   i. There is no time limit on the use of emergency stationary RICE in emergency situations.
   ii. The Permittee may emergency stationary RICE for any combination of the purposes specified in Section 2.1 C.3.m.ii.(A) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section 2.1 C.3.m.iii. below counts as part of the 100 hours per calendar year allowed by this paragraph ii.
      (A) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
   iii. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Section 2.1 C.3.m.ii above. Except as provided in Section 2.1 C.3.m.iii.(A) below, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
      (A) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
         (1) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
         (2) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
         (3) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
         (4) The power is provided only to the facility itself or to support the local transmission and distribution system.
         (5) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

   [40 CFR 63.6640(f)(1), (2), and (4)]
   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Sections 2.1 C.3.e through m are not met.

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

n. Beginning January 1, 2015, if you own or operate an existing emergency compression ignition stationary RICE with a site rating of more than 100 brake horsepower (HP) and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates for the purpose specified in Section 2.1 C.3.m.iii.(A) above, you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

o. The Permittee shall install a non-resettable hour meter on the IC engine if one is not already installed. [40 CFR 63.6625(f)]

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

p. The Permittee shall keep the following:
   i. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).[40 CFR 63.6655(a)(1)]

ii. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR 63.6655(a)(2)]
iii. Records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63.6655(a)(4)]
iv. Records of actions taken during periods of malfunction to minimize emissions in accordance with Section 2.1 C.3.k, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(5)]
v. Records of the maintenance conducted on the RICE pursuant to Section 2.1 C.3.l [40 CFR 63.6655(d) and (e)]
vi. Records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6655(f)]
vii. If the engine is used for the purposes specified in Section 2.1 C.3.m.iii.(A) above, the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f)]

The Permittee shall keep each record in a form suitable and readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(a), (b), and (c)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these recordkeeping requirements are not met.

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

q. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance must be clearly identified. [40 CFR 63.6640(b), (e) and 63.6650(f)] The summary report shall also include any reporting required under Section 2.1 C.3.i., as necessary. [40 CFR 63.6603(a), Table 2d to Subpart ZZZZ]
r. If the Permittee owns or operates an emergency stationary RICE with a site rating of more than 100 brake HP that operates for the purpose specified in Section 2.1 C.3.m.iii.(A) above, the Permittee shall submit an annual report according to the requirements at 40 CFR 63.6650(h). This report must be submitted to the Regional Supervisor and the EPA. [40 CFR 63.6650(h)]
s. The Permittee shall be deemed in noncompliance with the reporting requirements of 15A NCAC 02D .1111 if the requirements in Section 2.1 C.3.q through r are not met.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected emission sources

The following table provides a summary of limits and standards applicable facility wide:

Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants	**State-enforceable only** Permit limits shall not be exceeded.	15A NCAC 02D .1100
Odors	**State-enforceable only** Odorous emissions must be controlled.	15A NCAC 02D .1806
Hazardous Air Pollutants	Less than 10 tons per year of any HAP and less than 25 tons per year of a combination of HAPs	15A NCAC 02Q .0317 MACT Avoidance

State-Enforceable Only:

1. **15A NCAC 02D .1100: Control of Toxic Air Pollutants**
   a. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxic compliance demonstration dated November 27, 2000, the following optimized permit limits (as established through approved modeling at 95% of each respective acceptable ambient level (AAL) for emissions from the boiler (**ID No. ES5A**) shall not be exceeded:

Toxic Pollutant	Optimized Allowable Limit
Acetaldehyde	1.10E+05 lb/hour
Acetic Acid	1.51E+04 lb/hour
Acrolein	3.26E+02 lb/hour
Acrylonitrile	6.91E+05 lb/year
Ammonia	1.10E+04 lb/hour
Ammonium chromate	3.82E+02 lb/year
Ammonium dichromate	3.82E+02 lb/year
Aniline	4.08E+03 lb/hour
Arsenic	1.06E+03 lb/year
Aziridine	2.91E+03 lb/day
Benzene	5.52E+05 lb/year
Benzidine and salts	6.90E+01 lb/year
Benzo(a)pyrene	1.52E+05 lb/year
Benzyl chloride	2.04E+03 lb/hour
Beryllium	1.89E+04 lb/year
Beryllium chloride	1.89E+04 lb/year
Beryllium fluoride	1.89E+04 lb/year
Beryllium nitrate	1.89E+04 lb/year
Bis-chloromethyl ether	1.70E+03 lb/year
1,3-butadiene	7.82E+05 lb/year
Bromine	8.15E+02 lb/hour
Cadmium	2.53E+04 lb/year
Cadmium acetate	2.53E+04 lb/year
Cadmium bromide	2.53E+04 lb/year
Calcium chromate	3.82E+02 lb/year
Carbon disulfide	9.02E+04 lb/day
Carbon tetrachloride	3.08E+07 lb/year
Chlorine	3.67E+03 lb/hour 1.82E+04 lb/day
Chlorobenzene	1.07E+06 lb/day
Chloroform	1.98E+07 lb/year
Chloroprene	1.43E+04 lb/hour

Toxic Pollutant	Optimized Allowable Limit
	2.13E+05 lb/day
Chromic acid	3.82E+02 lb/year
Chromium VI	3.82E+02 lb/year
Cresol	8.97E+03 lb/hour
Di(2-ethylhexyl) phthalate	1.46E+04 lb/day
p-dichlorobenzene	2.69E+05 lb/hour
Dichlorodifluoromethane	1.20E+08 lb/day
Dichlorofluoromethane	2.43E+05 lb/day
Dimethyl sulfate	1.46E+03 lb/day
1,4 -dioxane	2.72E+05 lb/day
Epichlorohydrin	3.82E+08 lb/year
Ethyl acetate	5.71E+05 lb/hour
Ethyl mercaptan	4.08E+02 lb/hour
Ethylene dibromide	1.84E+06 lb/year
Ethylene dichloride	1.75E+07 lb/year
Ethylene glycol monoethyl ether	4.89E+02 lb/hour
Ethylene oxide	1.24E+05 lb/year
Ethylenediamine	1.02E+04 lb/hour
	1.46E+05 lb/day
Fluorides	1.02E+03 lb/hour
	7.76E+03 lb/day
Formaldehyde	6.12E+02 lb/hour
Hexachlorocyclopentadiene	4.08E+01 lb/hour
	2.91E+02 lb/day
Hexachlorodibenzo-p-dioxin	3.49E+02 lb/year
n-Hexane	5.34E+05 lb/day
Hexane isomers	1.47E+06 lb/hour
Hydrazine	2.91E+02 lb/day
Hydrogen chloride	2.85E+03 lb/hour
Hydrogen cyanide	4.48E+03 lb/hour
	6.79E+04 lb/day
Hydrogen fluoride	1.02E+03 lb/hour
	1.46E+04 lb/day
Hydrogen sulfide	8.56E+03 lb/hour
Maleic anydride	4.08E+02 lb/hour
	5.82E+03 lb/day
Manganese & compounds	1.50E+04 lb/day
Manganese cyclopentadienyl tricarbonyl	2.91E+02 lb/day
Manganese tetroxide	3.01E+03 lb/day
Mercury	2.91E+02 lb/day
Mercury, alkyl	2.91E+02 lb/day
Mercury, aryl	2.91E+02 lb/day
Methyl chloroform	9.99E+05 lb/hour
	5.82E+06 lb/day
Methyl ethyl ketone	3.61E+05 lb/hour
	1.79E+06 lb/day
Methyl isobutyl ketone	1.22E+05 lb/hour
	1.24E+06 lb/day
Methyl mercaptan	2.04E+02 lb/hour
Methylene chloride	6.93E+03 lb/hour
	1.10E+08 lb/year
Nickel carbonyl	2.91E+02 lb/day
Nickel metal	2.91E+03 lb/day
Nickel subsulfide	9.66E+03 lb/year

Toxic Pollutant	Optimized Allowable Limit
Nickel, soluble	2.91E+02 lb/day
Nitric acid	4.08E+03 lb/hour
Nitrobenzene	2.04E+03 lb/hour
	2.91E+04 lb/day
n-Nitrosodimethylamine	2.30E+05 lb/year
Pentachlorophenol	1.02E+02 lb/hour
	1.46E+03 lb/day
Perchloroethylene	8.74E+08 lb/year
Phenol	3.87E+03 lb/hour
Phosgene	1.21E+03 lb/day
Phosphine	5.30E+02 lb/hour
Polychlorinated biphenyls	3.82E+05 lb/year
Potassium chromate	3.82E+02 lb/year
Potassium dichromate	3.82E+02 lb/year
Sodium chromate	3.82E+02 lb/year
Sodium dichromate	3.82E+02 lb/year
Strontium chromate	3.82E+02 lb/year
Styrene	4.32E+04 lb/hour
Sulfuric acid	4.08E+02 lb/hour
	5.82E+03 lb/day
1,1,2,2-tetrachloro-1,2-diflouroethane	2.52E+07 lb/day
1,1,2,2-tetrachloro-2,2-diflouroethane	2.52E+07 lb/day
1,1,1,2-tetrachloro-ethane	2.90E+07 lb/year
1,1,2-trichloro-1,2,2-triflouroethane	3.87E+06 lb/hour
Tetrachlorodibenzo-p-dioxin	1.38E+01 lb/year
Toluene	2.28E+05 lb/hour
	2.28E+06 lb/day
Toluene-2,4-diisocyanate	9.70E+01 lb/day
Trichloroethylene	2.86E+04 lb/day
Vinyl chloride	1.75E+06 lb/year
Vinylidene chloride	5.82E+04 lb/day
Xylene	2.65E+05 lb/hour
	1.31E+06 lb/day
Zinc chromate	3.82E+02 lb/year

Operational Restrictions

b. To ensure compliance, the Permittee shall comply with the following fuel restrictions for the boiler:
   i. The total biomass fuel mixture to the boiler shall consist of:
      (A) No more than 50 percent, by weight, creosote treated wood;
      (B) No more than 121,615 tons per year, brooder/grow-in house poultry litter, on a 12-month rolling average basis; and/or
      (C) No more than 50 percent, by weight, clean cellulosic biomass other than listed below in paragraph (D).
      (D) Clean wood, mold inhibitor treated wood, plywood trimmings, particleboard, and/or paper plant sludge can be burned at any wood fuel mixture.
      (E) The wood fuel mixture shall not include any pentachlorophenol treated railroad ties or utility poles.
   ii. The Permittee may utilize a maximum of 3,000 gallons per year of used oil as a supplemental fuel in the boiler. The Permittee shall only utilize used oil that is generated at this facility and that meets the qualifications of equivalency with No. 4 fuel oil found in Section 2.2 A.1.c.v below, as a supplemental fuel.

Monitoring

c. To ensure compliance with the fuel restrictions, the Permittee shall conduct the following monitoring:
   i. The Permittee shall monitor the treatment method (i.e. pentachlorophenol-treated or creosote-treated) of railroad ties and utility poles burned in the boiler each month;

ii. The Permittee shall monitor the weight percent of clean wood, mold inhibitor treated wood, creosote treated wood, plywood trimmings, particleboard, waste sludge, clean cellulosic biomass, and brooder/grow out house poultry litter burned in the boiler each month;
iii. The Permittee shall monitor the poultry litter burned in the boiler each month to ensure that only poultry litter from brooder/grow out houses is used as fuel;
iv. The Permittee shall monitor the amount of used oil burned in the boiler each month; and
v. The Permittee shall monitor the used oil burned in the boiler for equivalency with unadulterated No. 4 fuel oil by conducting a chemical analysis of the used oil in accordance with the North Carolina Division of Air Quality Toxics Protection Branch Recycled Oil Management Plan at least once per year. As outlined in the current version of that document, dated January 2013, DAQ considers used oils that meet the following restrictions to be equivalent to unadulterated No. 4 fuel oil:

Constituent/Property	Allowable Level
Arsenic	1.0 parts per million, maximum
Cadmium	2.0 parts per million, maximum
Chromium	5.0 parts per million, maximum
Lead	100 parts per million, maximum
Total Halogens	1000 parts per million, maximum
Flash Point	130 degrees Fahrenheit (^{o}F), minimum
Sulfur	2.0% by weight, maximum
Ash	1.0% by weight, maximum

The DAQ reserves the right to require additional testing and/or monitoring of the used oil on an annual basis or without prior notice.

Recordkeeping

d. The Permittee shall maintain the following records:
i. Monthly records of the monitoring performed pursuant to Sections 2.2 A.1.c.i through v above;
ii. Records of the treatment method of railroad ties and utility poles burned in the boiler required pursuant to Section 2.2 A.1.c.i above. These records shall be in the form of a certification from the railroad tie supplier(s) that none of the railroad ties and utility poles supplied to this facility were treated with pentachlorophenol. In addition, these records shall include a certification by the Permittee that all railroad ties and utility poles burned in the boiler were obtained from the railroad tie and utility pole supplier(s) that provided the certifications referenced in the previous sentence;
iii. Records of the source of poultry litter burned in the boiler required pursuant to Section 2.2 A.1.c.iii above. These records shall be in the form of a certification from the poultry litter supplier(s) that all of the poultry litter supplied to this facility was obtained from brooder/grow out houses, In addition, these records shall include a certification by the Permittee that all poultry litter burned in the boiler were obtained from the poultry litter supplier(s) that provided the certifications referenced in the previous sentence; and
iv. Records of the results of testing performed pursuant to Section 2.2 A.1.c.v above.

Reporting

e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.2 A.1.c and d above to the Regional Supervisor of DAQ postmarked or delivered less than 30 days after each calendar year quarter. All instances of deviations from the requirements of this permit must be clearly identified.
f. Within 30 days after each calendar year the Permittee shall report the following to the Regional Supervisor, DAQ:
i. The results of the testing performed pursuant to Section 2.2 A.1.c.v above, for the previous year; and
ii. The total gallons of used oil burned in the boiler during the previous year.

State-Enforceable Only:

2. LIMITATION TO AVOID 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

Pursuant to 15A NCAC 02D 1806(d)(11), to avoid the applicability of 15A NCAC 02D .1806, "Control and Prohibition of Odorous Emissions," the Permittee shall implement the following management practices for minimizing odor from poultry litter:

a. When poultry litter arrives on the facility's property, it shall be in adequately covered trucks;
b. The Permittee shall utilize on-site fuel handling and management practices to minimize emissions and spillage and improve combustion conditions of the poultry litter. These practices shall include:
   i. performing loading and off-loading procedures inside a poultry litter storage area in an expeditious manner;
   ii. reasonably utilizing the "first in, first out" (FIFO) method for processing and using poultry litter;
   iii. immediately transporting loaded trucks when transferring poultry litter from storage to fuel processing; and
   iv. not storing any poultry litter on site for more than 90 days.

3. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

a. In order to remain classified a minor source for HAPs and avoid applicability of this regulation, facility-wide emissions shall be less than:
   i. 10 tons per year of each individual HAP, and
   ii. 25 tons per year of all HAPs combined.

Testing Requirements [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 limits given in Section 2.2 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

Operational Restrictions

c. To ensure compliance, the total biomass fuel mixture to the boiler **(ID No. ES5A)** shall include no more than 121,615 tons per year of brooder/grow out house poultry litter, on a 12-month rolling average basis.

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

d. The Permittee shall use the following equations to calculate HAP emissions from boiler **(ID No. ES5A)**:

HCl Emissions (ton/yr) = [TF (ton/yr) × FHV (Btu/lb) × 2000 lb/ton] × [uHClef (lbHCl/MMBtu) / 1.0 E6 Btu/MMBtu]

Other HAP Emissions (ton/yr) = [TF (ton/yr) × FHV (Btu/lb) × 2000 lb/ton] × [HAPef (lbHAP/MMBtu) / 1.0 E6 Btu/MMBtu]

Where:
TF = Total Biomass Fuel Use (tons/yr) based on 80% woody biomass and ≤ 20% poultry litter mixture
FHV = Fuel Heating Value (Btu/lb) = 4,797 Btu/lb average based on the biomass fuel mixture above
uHClef = Uncontrolled HCl Emission Factor = 1.54 E-3 lb HCl/MMBtu fuel[1]
HAPef = HAP Emission Factor (lbHAP)/MMBtu fuel)[2]

e. The Permittee may re-establish any emissions factor during periodic testing. Compliance with previously approved emissions factors is not required during periodic required testing or other tests undertaken to re-establish parametric operating values by the Permittee. If the new emissions factors re-established during periodic testing are more stringent, the Permittee shall submit a request to revise the emissions factors in the permit at the same time the test report required pursuant to General Condition JJ is submitted. The permit revision will be processed pursuant to 15A NCAC 02Q .0514. If, during performance testing, the new emissions factors are less stringent, the Permittee may request to revise the emissions factors in the permit pursuant to 15A NCAC 02Q .0515
f. The Permittee shall maintain records of the HAP emissions calculated in Section 2.2 A.3.b as follows:
   i. quantity of HAPs in tons emitted on individual equipment (**ID No. ES5A**) and for the plant each month and for the 12-month period ending on that month,

[1] The hydrogen chloride emission factor is based on the stack emissions test performed on the boiler (ID No. ES5A) on September 11, 2015 and approved July 7, 2016 by DAQ's Stationary Source Compliance Branch.

[2] The other HAP emission factors are based on a combination of stack emissions tests and EPA's AP-42 Section 1.6.

ii. quantity of HAPs in tons emitted by the plant each month and for the 12-month period ending on that month,
iii. quantity of all HAPs in tons emitted by the plant each month and for the 12-month period ending on that month.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these HAP emissions are not monitored or records are not maintained**.**

g. The Permittee shall maintain a record of the amount of each type of biomass fuel fired containing HAPs on a monthly basis. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these fuel amounts are not monitored or records are not maintained**.**

h. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the monitoring and recordkeeping requirements in Sections 2.2 A.3.d through g are not met.

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

i. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section(s) 2.2 B.3.b through f above. The report shall summarize emissions of HAPs containing the following:
   i. total pounds of HAPs emitted
      A. for each month during the semiannual period, and
      B. for each 12-month period ending on each month during the semiannual period using a 12-month rolling total;
   ii. greatest quantity in pounds of an individual HAP emitted:
      A. for each month during the semiannual period, and
      B. for each 12-month period ending on each month during the semiannual period using a 12-month rolling total.
   iii. total pounds of fuels such as woody biomass and brooder/grow out house poultry litter containing HAPs fired during the previous calendar year,
      A. for each month during the semiannual period, and
      B. for each 12-month period ending on each month during the semiannual period using a 12-month rolling total.

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

2.3 - Phase II Acid Rain Permit Requirements

ORIS code: 10525
Expires: [ENTER EXPIRATION DATE for Permit No. 06419T29]

A. Statement of Basis

Statutory and Regulatory Authorities: In accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended and Titles IV and V of the Clean Air Act, the Department of Environmental Quality, Division of Air Quality issues this permit pursuant to Title 15A North Carolina Administrative Codes, Subchapter 02Q .0400 and 02Q .0500, and other applicable Laws.

B. SO_2 Allowance Allocations and NO_X Requirements for each affected unit

ES5A **(Acid Rain ID No. 4A)**	SO_2 allowances, under Tables 2, 3, or 4 of 40 CFR Part 73.	None
	NO_X limit	See 40 CFR Parts 76.5, 76.6, and 76.7.

C. Comments, Notes and Justifications

None.

D. Phase II Permit Application (attached)

The Phase II Permit Application submitted for this facility, as approved by the Department of Environmental Quality, Division of Air Quality, is part of this permit. The owners and operators of this Phase II acid rain source must comply with the standard requirements and special provisions set forth in the following attached Acid Rain Permit Application dated October 13, 2022.

2.4 - Cross State Air Pollution Rules (CSAPR) Permit Requirements

For the boiler **(ID No. ES5A)**, the Permittee shall comply with all applicable requirements of 40 CFR Part 97, Subpart AAAAA "CSAPR NOx Annual Trading Program", and Subpart CCCCC "CSAPR SO_2 Group 1 Trading Program".

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

Emission Source ID No.	Emission Source Description[1, 2]
I1	One propane storage tank (18,000 gallon capacity)
I2	One sulfuric acid storage tank (4,100 gallon capacity)
I3	One water treatment chemical storage tank (550 gallon capacity)
I4	One water treatment chemical storage tank (550 gallon capacity)
I5	One water treatment chemical storage tank (1,625 gallon capacity)
I6	One water treatment chemical storage tank (550 gallon capacity)
I7	One sodium hypochlorite storage tank (550 gallon capacity)
I8a	One fuel oil storage tank (2,000 gallon capacity)
I8b	One fuel oil storage tank (2,000 gallon capacity)
I9	One gasoline storage tank (500 gallon capacity)
I10	One diesel-fired welding unit
I11	One poultry litter storage building
I12	One poultry litter storage building

[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 6.0, 01/07/2022)

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
   a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
   b. the permitted facility was at the time being properly operated;

c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 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.

ATTACHMENT: Acid Rain Permit Application for Craven County Wood Energy, L.P

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 05/31/2025

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ■ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Craven County Wood Energy, L.P.	NC	10525

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
ES5A	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

EPA Form 7610-16 (Revised 07-2022)

Facility (Source) Name (from STEP 1) Craven County Wood Energy, L.P.

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
- (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
- (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
- (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
- (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the sourceshall:
- (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
- (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
- (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Facility (Source) Name (from STEP 1) Craven County Wood Energy, L.P.

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Facility (Source) Name (from STEP 1) Craven County Wood Energy, L.P.

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Thomas A CLIFT	
Signature Thomas A Clift	Date 10-14-2022