



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

Beverly Eaves Perdue
Governor

B. Keith Overcash, P.E.
Director

Dee Freeman
Secretary

January 22, 2010

Mr. Paul A. Garrett
Plant Manager
Craven County Wood Energy, L.P.
201 Executive Parkway
New Bern, North Carolina 28562

Proposed

SUBJECT: **Air Quality Permit No. 06419T20**
Facility ID: 2500158
Craven County Wood Energy, L.P.
New Bern, North Carolina
Craven County
Fee Class: Title V

Dear Mr. Garrett:

In accordance with your completed Air Quality Permit Applications for the renewal of a Title V permit received August 7, 2007, we are forwarding herewith Air Quality Permit No. 06419T20 to Craven County Wood Energy, L.P., 201 Executive Parkway, New Bern, North Carolina, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

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

Permitting Section
1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, NC 27604
Phone: 919-715-6237 \ FAX: 919-733-5317 \ Internet: www.daq.state.nc.us

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

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from January 22, 2010 until December 31, 2014, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Please note the attached summary table, which outlines the changes made to the permit. Should you have any questions concerning this matter, please contact Mr. David F. Putney, PE by email at david.putney@ncdenr.gov or by telephone at (919) 733-2051.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA
Washington Regional Office
Central Files

Table of modifications in Permit No. 06419T20

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
Global	Global		<ul style="list-style-type: none"> Change the issuance/effective dates of the permit and the permit revision number to T20; Update reporting requirement permit conditions to allow for hand delivery of reports; Update regulatory basis for testing to 2D .2601; and Update current permit shell (remove Part II)
3	3	Equipment List	<ul style="list-style-type: none"> Add sources ES-11 and ES-12 to the equipment list and show applicability of MACT to ES-11 and ES-12; and Modify description of ES5A to remove the weight % limits on firing rates of railroad ties, brooder house poultry waste, and cotton waste (these limits are applied pursuant to 2D .1100 and are not equipment limits)
4 – 11	4 - 6	2.1 A	Remove boiler ES5A and the associated emission limits, control requirements, and monitoring/recordkeeping/ reporting (MRR) requirements from this permit section
5	4 - 5	2.1 A.1	Replace alternate operating scenario (AOS) requirements with the 2D .0515 requirements (found in section 2.1 A.4 of current Permit 06419T19) after (1) updating to require records of I&M times, results, and variance from the manufacturer’s recommendations, and (2) splitting the reporting requirements into two permit conditions.
5	5 - 6	2.1 A.2	Replace 2D .0503 requirements with those of 2D .0521 (found in section 2.1 A.7 of Permit 06419T19) after updating the monitoring requirements to the current shell language and removing requirement to establish “normal.”
5 - 6	6	2.1 A.3	Replace 2D .0504 requirements with those of 2D .0530 for F6A-1, F6A-2, and FA (found in sections 2.1 A.9.a and 2.1 A.9.e – i of current Permit 06419T19) after (1) updating to require records of I&M times, and (2) specifying use of Method 22 for VE observations
5 - 10	7 - 11	2.1 B	Add this section to the permit and include the emission limits, control requirements, and MRR requirements associated with ES5A to this permit section
5	7	2.1 B.1	Include the AOS requirements (found in section 2.1 A.1 of current Permit 06419T19) in this section and correct the regulatory citation of this requirement
5	8	2.1 B.2	Include the 2D .0503 requirements (found in section 2.1 A.2 of current Permit 06419T19) in this section after modifying to show expanded applicability (i.e. while burning propane, natural gas, and/or No. 4 fuel oil)
5 - 6	8 - 9	2.1 B.3	Include the 2D .0504 requirements (found in section 2.1 A.3 of Permit 06419T19) in this section after making the testing requirement a reference to testing under 2D .0524 and modifying the MRR requirements to (1) specify the timing of annual multicyclone inspections, (2) require records of I&M times, results, and variance from the manufacturer’s recommendations, and (3) split the reporting requirements into two permit conditions
7	9	2.1 B.4	Include the 2D .0516 requirements (found in section 2.1 A.5 of current Permit 06419T19) in this section after adding MRR requirements for used oil combustion.

Table of modifications in Permit No. 06419T20

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
7 - 8	9	2.1 B.5	Include the 2D .0519 requirements (found in section 2.1 A.6 of current Permit 06419T19) in this section after modifying to show applicability while burning used oil
8 - 9	9 - 10	2.1 B.6	Include the 2D .0524 requirements (found in section 2.1 A.8 of current Permit 06419T19) in this section after (1) rewording/ expanding for clarity and completeness, (2) reducing testing frequency to once per permit term, and (3) modifying the MRR requirements to require records of I&M times, results, and variance from recommendations
10	11	2.1 B.7	Include the 2D .0530 requirements for ES5A (sections 2.1 A.9.a - d and 2.1 A.9.i of Permit 06419T19) in this section after making the particulate testing requirement a reference to testing under 2D .0524 and the MRR requirements a reference to MRR requirements under 2D .0504
N/A	12	2.1 C	Add this section to the permit to include the emission limits, control requirements, and MRR requirements associated with ES-11 and ES-12 to this section
12 - 14	13 - 15	2.2 A	Expand 2D .1100 conditions for clarity and to include MRR requirements (including the specifications for unadulterated No. 4 oil equivalency)
14	16	2.3	Replace Acid Rain program "shield" language with the associated program requirements
NA	16 - 18	2.4	Add this section to the permit to include the Clean Air Interstate Rules requirements for boiler ES5A
15 - 22	19 - 26	Section 3	Update to current shell (i.e. version 3.0)

Note: Condition/Item numbers are those as they appear on Permit No. 06419T20.

State of North Carolina,
Department of Environment,
and Natural Resources

Division of Air Quality



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
06419T20	06419T19	January 22, 2010	December 31, 2014

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

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

Permittee: **Craven County Wood Energy, L.P.**

Facility ID: **2500158**

Facility Site Location: **NCSR 1225 at US Highway 70**
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: **2500158.07A**
Complete Application Date: **August 07, 2007**

Primary SIC Code: **4911**

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 22nd day of January, 2010.

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

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
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- Attachment 3: Acid Rain program permit application
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Proposed

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	One boiler (666 million Btu per hour maximum heat input rate) fired on: <ul style="list-style-type: none"> • Woodwaste consisting of: <ul style="list-style-type: none"> ○ Clean wood, ○ Railroad ties, ○ Plywood trimmings, ○ Particle board; ○ Weyerhaeuser sludge; ○ Brooder house poultry waste; and ○ Cotton waste • Natural gas (startup fuel only); • Propane (startup fuel only); and • Used oil (onsite generation only) 	CD5A-1 CD5A-2	Multicyclone (330 nine inch diameter tubes) installed on Electrostatic precipitator (122,000 square feet of collection plate area)
ES-11 MACT ZZZZ	One diesel-fired emergency fire pump (250 horsepower maximum rated power output)	N/A	N/A
ES-12 MACT ZZZZ	One diesel-fired emergency generator (175 kilowatt maximum rated power output)	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

- A. 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:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E = 4.10P^{0.67}$ If $P \leq 30$ tons per hour; and $E = 55.0(P)^{0.11} - 40$ If $P > 30$ tons per hour Where: E = allowable emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate Matter; and Visible emissions	Best Available Control Technology	15A NCAC 2D .0530
Odororous emissions	State Enforceable Only Refer to Section 2.2 A.2	15A NCAC 2D .1806

1. 15A NCAC 2D .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: [15A NCAC 2D .0515(a)]

$$E = 4.10P^{0.67} \quad \text{If } P \leq 30 \text{ tons per hour; and}$$

$$E = 55.0(P)^{0.11} - 40 \quad \text{If } P > 30 \text{ tons per hour}$$

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 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. To assure 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 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:
- Water quenching of bottom ash after discharge from the grate of the boiler (**ID No. ES5A**);
 - Enclosed dust collectors and water suppression system on the fly ash handling system (**ID No. F6A-2**), and
 - Partial enclosed conveyors and transfer towers wherein all transfer points are closed, on the wood reclaim conveyor.

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

- d. To assure 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**), the hammer mill, and

the wood reclaim conveyor 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 2D .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, if any, and corrections made.

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

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

- 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/or the wood reclaim conveyor within 30 days of a written request by the DAQ.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from 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. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure 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 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;

- ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
- iii. The results of any corrective actions performed.

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

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

- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 2D .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)	PM	Work practices and equipment design
Bottom ash handling system (ID No. F6A-1)	Opacity	0 percent
Fly ash handling system (ID No. F6A-2)	Opacity	0 percent

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

- b. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if emissions of particulate matter from the wood handling and storage operations are not controlled 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.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .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 2D .0530 if these monitoring, recordkeeping, and reporting requirements are not performed.

- d. To assure 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 2D .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 2D .0530 if these records are not maintained.

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 multicyclone (330 nine inch diameter tubes; ID No. CD5A-1) and one electrostatic precipitator (122,000 square feet of collection plate area; ID No. CD5A-2) and one associated boiler (666 million Btu per hour maximum heat input rate; ID No. ES5A) fired on:

- **Woodwaste consisting of:**
 - Clean wood,
 - Railroad ties,
 - Plywood trimmings,
 - Particle board;
 - Weyerhaeuser sludge;
 - Brooder house poultry waste; and
 - Cotton waste
- **Natural gas (startup fuel only);**
- **Propane (startup fuel only); and**
- **Used oil (onsite generation only)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter (PM)	<p>POS: (Primary Operating Scenario) - firing wood only or wood in combination with other fuels</p> $Ec = [(0.274)(Qw) + (0.202)(Qo)]/Qt$ <p>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)</p>	15A NCAC 2D .0504
	<p>AOS (Alternate Operating Scenario) - firing any combination of fuels that does not include wood</p> <p>0.202 pounds of PM per million Btu heat input</p>	15A NCAC 2D .0503
Sulfur dioxide (SO ₂)	2.3 pounds of SO ₂ per million Btu heat input	15A NCAC 2D .0516
Nitrogen oxides (NO _x)	0.8 pounds per million Btu heat input	15A NCAC 2D .0519
NO _x and SO ₂	Acid Rain program – Refer to Section 2.3	15A NCAC 2Q .0400
	Clean Air Interstate Rules – Refer to Section 2.4	15A NCAC 2D .2400
Particulate Matter (PM); Nitrogen oxides (NO _x); and Visible emissions (VE)	<p>PM: 0.10 pounds of PM per million Btu heat input</p> <p>NO_x: The annual capacity factor for natural gas and propane, combined, shall not exceed 10 percent (0.10)</p> <p>VE: 20 percent opacity</p>	15A NCAC 2D .0524 [40 CFR 60, Subpart Db]
PM; VOC, NO _x and CO	Best Available Control Technology As defined in Section 2.1 B.7	15A NCAC 2D .0530

Toxic Air Pollutants	State-Enforceable Only - Refer to Section 2.2 A.1	15A NCAC 2D .1100
Odorous emissions	State Enforceable Only - Refer to Section 2.2 A.2	15A NCAC 2D .1806

1. ALTERNATE OPERATING SCENARIOS [15A NCAC 2Q .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 2Q .0508(j)(1)]

AOS-firing any combination of fuels that does not include wood

2. 15A NCAC 2D .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 woodwaste (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. [15A NCAC 2D .0503]

Testing [15A NCAC 2D .2601]

- 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.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

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

POS -firing wood fuel only or in combination with other fuels

3. 15A NCAC 2D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of wood only or wood in combination with other fuels (i.e. woodwaste 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: [15A NCAC 2D .0504]

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

Where: 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 2D .2601]

- 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 2D .0504.

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

- c. 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 assure 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 is no manufacturer's inspection and maintenance recommendation, 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 2D .0504 if the multicyclone, ESP, and ductwork are not inspected and maintained.

Recordkeeping

- d. 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 2D .0504 if these records are not maintained.

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

- e. 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.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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.

4. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide (SO₂) 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. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 2D .0516.

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

- c. No monitoring, recordkeeping, or reporting is required for SO₂ emissions from the combustion of woodwaste, natural gas, and/or propane, in this source.
- d. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements found in Section 2.2 A.1.c.iv and v, 2.2 A.1.d.i and iv, 2.2 A.1.e, and 2.2 A.1.f, below, for SO₂ emissions from the combustion of used oil in this boiler (**ID No. ES5A**). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if these monitoring, recordkeeping, and reporting requirements are not performed.

5. 15A NCAC 2D .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. [15A NCAC 2D .0519]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. 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 2D .0519.

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

- c. No monitoring, record keeping, 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 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

[40 CFR Part 60, Subpart Db]

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .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.” [15A NCAC 2D .0524]

Emission Standards [40 CFR §60.43b and §60.44b]

- b. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the Permittee does not restrict the operations of, and limit emissions from, the boiler (**ID No. ES5A**) as follows:
 - i. For particulate matter (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;
 - (B) The Permittee shall limit visible emissions such that they do not exceed 20 percent opacity (6-minute average), except that one 6-minute period with opacity not to exceed 27 percent is allowed per hour; and
 - (C) The Permittee shall operate this source such that the annual capacity factor for woodwaste is no less than 30 percent (0.30).
 - ii. For emissions of nitrogen oxides (NO_x) from this source: The Permittee shall operate this source such that the annual capacity factor for natural gas and/or propane is no greater than 10 percent (0.10).

Testing [15A NCAC 2D 2601]

- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits listed in Section 2.1 B.6.b.i(A), above, by testing the boiler once per permit term. The next test must be completed and the associated test report must be submitted to NC DAQ at least 9 calendar months prior to expiration of this permit unless an alternative date is approved by DAQ. The testing must be performed in accordance with a testing protocol approved by NC DAQ, General Condition JJ found in Section 3, and 15A NCAC 2D .2601. At least forty-five (45) days prior to performing this testing, the Permittee shall develop and submit a testing protocol to the Washington Regional Supervisor, Division of Air Quality for review and approval.

If the results of this test are above the limits identified in Section 2.1 B.6.b.i(A), above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f) and 40 CFR §60.48b and §60.49b]

- d. The Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) on this source in accordance with the equipment manufacturer’s recommendations. The COMS output 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 any emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions;
 - 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 2D .0524 if these records are not maintained.

- e. The Permittee shall monitor and maintain records of the quantities of each fuel (i.e. woodwaste, natural gas, propane, and used oil) combusted in this source each day and these records shall be made available to an authorized representative of DAQ upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.
- f. At the end of each calendar month, the Permittee shall calculate the annual capacity factor for each fuel (i.e. woodwaste, natural gas, propane, and used oil) combusted in the boiler (on a 12-month rolling average basis). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these annual capacity factors are not determined and recorded.

Reporting [15A NCAC 2Q .0508(f) and 40 CFR §60.49b]

- g. Within 30 days after conducting the testing required under Section 2.1 B.6.c, above, the Permittee shall submit a written report of the test results to the Washington Regional Office of NC DAQ.
- h. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered 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 that includes:

- i. Clear identification of all instances of deviations from the requirements of this permit; and either
- ii. An excess emission report for any excess emissions that occurred during the reporting period, if applicable; or
- iii. A statement indicating that no excess emissions occurred during the reporting period, if applicable.

7. 15A NCAC 2D .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/PM ₁₀)	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 2D .2601]

- b. The Permittee shall perform the testing requirements found in Section 2.1 B.6.c, above, for particulate matter emissions from this source. 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 2D .0530.

Testing [15A NCAC 2D .2601]

- c. If emissions testing is required for VOC, CO, and/or NO_x emissions from this source, that testing shall be performed in accordance with 15A NCAC 2D .2601, General Condition JJ found in Section 3, and a protocol approved by NC DAQ. 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 2D .0530.

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

- d. The Permittee shall perform the monitoring, recordkeeping, and reporting requirements for this source (**ID No. ES5A**) found in Section 2.1 B.3.c through f, above.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these monitoring, recordkeeping, and reporting requirements are not performed.

C. One diesel-fired emergency fire pump (250 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)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide (SO ₂)	2.3 pounds of SO ₂ per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous Air Pollutants	Maximum Achievable Control Technology No applicable requirements	15A NCAC 2D .1111 [40 CFR 63, Subpart ZZZZ]
Odorous emissions	State Enforceable Only Refer to Section 2.2 A.2	15A NCAC 2D .1806

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

- a. Emissions of sulfur dioxide from the emergency reciprocating internal combustion engines (i.e. 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 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .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 2D .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 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the emergency RICE (**ID Nos. ES-11 and ES-12**).

3. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. The emergency RICE (**ID Nos. ES-11 and ES-12**) are subject to Environmental Management Commission Standard 15A NCAC 2D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines." [15A NCAC 2D .1111]

- b. The emergency RICE (**ID Nos. ES-11 and ES-12**) are considered an existing stationary reciprocating internal combustion engine (RICE), pursuant to §63.6590(a)(1)(iii), for the purposes of Subpart ZZZZ. Therefore, these emergency RICE are not required to meet the requirements of 40 CFR Part 63, Subparts ZZZZ or A "General Provisions" (i.e. an initial notification is not required for these emergency RICE). [§63.6590(b)(3)]

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:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants	State-enforceable only Permit limits shall not be exceeded.	15A NCAC 2D .1100
Odorous emissions	State-enforceable only Odorous emissions must be controlled.	15A NCAC 2D .1806

State-Enforceable Only:

1. 15A NCAC 2D .1100: Control of Toxic Air Pollutants

- a. Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following optimized permit limits (as established through approved modeling at 95% of each respective AAL) for emissions from the boiler (**ID No. ES5A**) shall not be exceeded:

<u>Toxic Pollutant</u>	<u>Optimized Allowable Limit</u>	<u>Toxic Pollutant</u>	<u>Optimized Allowable Limit</u>
Acetaldehyde	1.10E+05 lb/hr	Aziridine	2.91E+03 lb/day
Acetic Acid	1.51E+04 lb/hr	Carbon disulfide	9.02E+04 lb/day
Acrolein	3.26E+02 lb/hr	Chlorobenzene	1.07E+06 lb/day
Ammonia	1.10E+04 lb/hr	Di(2-ethylhexyl)	
Aniline	4.08E+03 lb/hr	phthalate	1.46E+04 lb/day
Benzyl chloride	2.04E+03 lb/hr	Dichlorodifluoro-	
Bromine	8.15E+02 lb/hr	methane	1.20E+08 lb/day
Chlorine	3.67E+03 lb/hr	Dichlorofluoromethane	2.43E+05 lb/day
	1.82E+04 lb/day	Dimethyl sulfate	1.46E+03 lb/day
Chloroprene	1.43E+04 lb/hr	1,4 -dioxane	2.72E+05 lb/day
	2.13E+05 lb/day	Ethylenediamine	1.46E+05 lb/day
Cresol	8.97E+03 lb/hr	Hydrazine	2.91E+02 lb/day
Ethyl acetate	5.71E+05 lb/hr	Manganese & compounds	1.50E+04 lb/day
Ethyl mercaptan	4.08E+02 lb/hr	Manganese cyclopentadienyl	
Ethylene glycol mono-		tricarbonyl	2.91E+02 lb/day
ethyl ether	4.89E+02 lb/hr	Manganese tetroxide	3.01E+03 lb/day
Ethylenediamine	1.02E+04 lb/hr	Mercury	2.91E+02 lb/day
Flourides	1.02E+03 lb/hr	Mercury, alkyl	2.91E+02 lb/day
	7.76E+03 lb/day	Mercury, aryl	2.91E+02 lb/day
Formaldehyde	6.12E+02 lb/hr	n-Hexane	5.34E+05 lb/day
Hexachlorocyclo-		Nickel carbonyl	2.91E+02 lb/day
pentadiene	4.08E+01 lb/hr	Nickel metal	2.91E+03 lb/day
	2.91E+02 lb/day	Nickel, soluble	2.91E+02 lb/day
Hexane isomers	1.47E+06 lb/hr	Phosgene	1.21E+03 lb/day
Hydrogen chloride	2.85E+03 lb/hr	1,1,2,2-tetrachloro-1,2-	
Hydrogen cyanide	4.48E+03 lb/hr	difluoroethane	2.52E+07 lb/day
	6.79E+04 lb/day	1,1,2,2-tetrachloro-2,2-	
Hydrogen flouride	1.02E+03 lb/hr	difluoroethane	2.52E+07 lb/day
	1.46E+04 lb/day	Toluene-2,4-diisocyanate	9.70E+01 lb/day
Hydrogen sulfide	8.56E+03 lb/hr	Trichloroethylene	2.86E+04 lb/day
Maleic anydride	4.08E+02 lb/hr	Vinylidene chloride	5.82E+04 lb/day
	5.82E+03 lb/day	Acrylonitrile	6.91E+05 lb/year
Methyl chloroform	9.99E+05 lb/hr	Ammonium chromate	3.82E+02 lb/year
	5.82E+06 lb/day	Ammonium dichromate	3.82E+02 lb/year
Methylene chloride	6.93E+03 lb/hr	Arsenic	1.06E+03 lb/year
	1.10E+08 lb/year	Benzene	5.52E+05 lb/year

Optimized		Optimized	
Toxic Pollutant	Allowable Limit	Toxic Pollutant	Allowable Limit
Methyl ethyl ketone	3.61E+05 lb/hr	Benzidine and salts	6.90E+01 lb/year
	1.79E+06 lb/day	Benzo(a)pyrene	1.52E+05 lb/year
Methyl isobutyl ketone	1.22E+05 lb/hr	Beryllium	1.89E+04 lb/year
	1.24E+06 lb/day	Beryllium chloride	1.89E+04 lb/year
Methyl mercaptan	2.04E+02 lb/hr	Beryllium flouride	1.89E+04 lb/year
Nitric acid	4.08E+03 lb/hr	Beryllium nitrate	1.89E+04 lb/year
Nitrobenzene	2.04E+03 lb/hr	Bis-chloromethyl ether	1.70E+03 lb/year
	2.91E+04 lb/day	1,3-butadiene	7.82E+05 lb/year
p-dichlorobenzene	2.69E+05 lb/hr	Cadmium	2.53E+04 lb/year
Pentachlorophenol	1.02E+02 lb/hr	Cadmium acetate	2.53E+04 lb/year
	1.46E+03 lb/day	Cadmium bromide	2.53E+04 lb/year
Phenol	3.87E+03 lb/hr	Calcium chromate	3.82E+02 lb/year
Phosphine	5.30E+02 lb/hr	Carbon tetrachloride	3.08E+07 lb/year
Styrene	4.32E+04 lb/hr	Chloroform	1.98E+07 lb/year
Sulfuric acid	4.08E+02 lb/hr	Chromic acid	3.82E+02 lb/year
	5.82E+03 lb/day	Chromium VI	3.82E+02 lb/year
Toluene	2.28E+05 lb/hr	Epichlorohydrin	3.82E+08 lb/year
	2.28E+06 lb/day	Ethylene dibromide	1.84E+06 lb/year
1,1,2-trichloro-1,2,2-trifluoroethane	3.87E+06 lb/hr	Ethylene dichloride	1.75E+07 lb/year
Xylene	2.65E+05 lb/hr	Ethylene oxide	1.24E+05 lb/year
	1.31E+06 lb/day	Hexachlorodibenzo-p-dioxin	3.49E+02 lb/year
		n-Nitrosodimethylamine	2.30E+05 lb/year
		Nickel subsulfide	9.66E+03 lb/year
		Perchloroethylene	8.74E+08 lb/year
		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
		1,1,1,2-tetrachloro-ethane	2.90E+07 lb/year
		Tetrachlorodibenzo-p-dioxin	1.38E+01 lb/year
		Vinyl chloride	1.75E+06 lb/year
		Zinc chromate	3.82E+02 lb/year

Operational Restrictions

- b. To assure compliance, the Permittee shall comply with the following fuel restrictions for the boiler:
- i. The total woodwaste fuel mixture to the boiler shall consist of:
 - (A) No more than 50 percent, by weight, creosote treated railroad ties;
 - (B) No more than 10 percent, by weight, brooder house poultry waste; and/or
 - (C) No more than 50 percent, by weight, cotton waste.
 - (D) Clean wood, plywood trimmings, particleboard, and/or Weyerhaeuser sludge can be burned at any wood fuel mixture.
 - (E) The wood fuel mixture shall not include any pentachlorophenol treated railroad ties.
 - 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 assure 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 burned in the boiler each month;

- ii. The Permittee shall monitor the weight percent of clean wood, creosote treated railroad ties, plywood trimmings, particleboard, waste sludge, cotton waste, and brooder house poultry waste burned in the boiler each month;
- iii. The Permittee shall monitor the poultry waste burned in the boiler each month to assure that only poultry waste from brooder 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 September 2006, 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 (°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. The Permittee shall maintain monthly records of the monitoring performed pursuant to Sections 2.2 A.1.c.i through v, above;
 - ii. The records of the treatment method of railroad ties burned in the boiler required pursuant to Section 2.2 A.1.c.i, above, shall be in the form of a certification from the railroad tie supplier(s) that none of the railroad ties supplied to this facility were treated with pentachlorophenol. In addition, these records shall include a certification by the Permittee that all railroad ties burned in the boiler were obtained from the railroad tie supplier(s) that provided the certifications referenced in the previous sentence;
 - iii. The records of the source of poultry waste burned in the boiler required pursuant to Section 2.2 A.1.c.iii, above, shall be in the form of a certification from the poultry waste supplier(s) that all of the poultry waste supplied to this facility was obtained from brooder houses, In addition, these records shall include a certification by the Permittee that all poultry waste burned in the boiler were obtained from the poultry waste supplier(s) that provided the certifications referenced in the previous sentence; and
 - iv. The Permittee shall maintain 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 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. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

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

2.3 - Phase II Acid Rain Permit Requirements**ORIS code: 10525****Effective: January 1, 2009 through December 31, 2013****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 Environment and Natural Resources, Division of Air Quality issues this permit pursuant to Title 15A North Carolina Administrative Codes, Subchapter 2Q .0400 and 2Q .0500, and other applicable Laws.

B. SO₂ Allowance Allocations and NO_x Requirements for each affected unit

		2009	2010	2011	2012	2013
ES5A (Acid Rain ID No. 4A)	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR Part 73.	NA*	NA*	NA*	NA*	NA*
	NO _x limit	NA**				

* SO₂ allowances are not allocated by U.S. EPA for new units under 40 CFR Part 72.

** Does not apply to gas or oil-fired units.

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 Environment and Natural Resources, Division of Air Quality, are part of this permit. The owners and operators of these Phase II acid rain sources must comply with the standard requirements and special provisions set forth in the following attached application.

Acid Rain Permit Application dated January 12, 2006

2.4 - Clean Air Interstate Rules (CAIR) Permit Requirements**ORIS code: 10525****The following sources are affected CAIR units:**

Permitted Source	CAIR ID No.
ES5A	4A

A. 15A NCAC 2D .2403: NITROGEN OXIDE EMISSIONS

- The total nitrogen oxide (NO_x) emissions from the affected Clean Air Interstate Rules (CAIR) unit listed above at the Craven County Wood Energy, LP facility shall not exceed, except as provided under 15A NCAC 2D .2408: [15A NCAC 2D .2403]

- a. 498 tons annually for 2009-2014; and
 - b. 424 tons annually for 2015 and later
2. The affected CAIR NO_x sources shall comply with the requirements of 15A NCAC 2D .2408 using the trading program and banking set out in 40 CFR Part 96. [15A NCAC 2D .2407]
 3. The owner or operator of any unit or source covered under 15A NCAC 2D .2403 shall be subject to the provisions of 40 CFR 96.106(f). [15A NCAC 2D .2403(e)]

Monitoring/Recordkeeping/Reporting [15A NCAC 2D .2403, and 15A NCAC 2D .2407(a)]

4. The emissions of nitrogen oxides of a CAIR NO_x source shall not exceed the number of allowances that it has in its compliance account established and administered under 15A NCAC 2D .2408.
5. The emissions measurements recorded and reported according to 40 CFR Part 96 Subpart HH shall be used to determine compliance by each CAIR NO_x source with its emissions limitation according to 40 CFR 96.106(c) including 96.106(c)(5) and 96.106(c)(6).
6. The provisions of 40 CFR 96.106(d) shall be used for excess emissions.

B. 15A NCAC 2D .2405: NITROGEN OXIDE EMISSIONS DURING OZONE SEASON

1. Ozone season NO_x emissions from the affected CAIR units listed above at the Craven County Wood Energy, LP facility shall not exceed, except as provided in 15A NCAC 2D .2408: [15A NCAC 2D .2405(a)(1) and (b)]
 - a. 211 tons during the ozone season for 2009-2014; and
 - b. 179 tons during the ozone season for 2015 and later

The ozone season shall be defined as the period of time extending from May 1st to September 30th of each calendar year.

2. The affected CAIR NO_x Ozone Season sources shall comply with the requirements of 15A NCAC 2D .2408 using the trading program and banking set out in 40 CFR Part 96. [15A NCAC 2D .2408]
3. The owner or operator of any unit or source covered under 15A NCAC 2D .2405 shall be subject to the provisions of 40 CFR 96.306(f). [15A NCAC 2D .2405(g)]

Monitoring/Recordkeeping/Reporting [15A NCAC 2D .2405(d) and (e), and 15A NCAC 2D .2407(a)]

4. The Permittee shall comply with the monitoring, recordkeeping, and reporting requirements in 40 CFR 96.306(b) and (e), and 40 CFR 96 Subpart HHHH for each CAIR Ozone Season NO_x unit.
5. The nitrogen oxide ozone season emissions of a CAIR NO_x Ozone Season source shall not exceed the number of allowances that it has in its compliance account established and administered under 15A NCAC 2D .2408. For purposes of making deductions for excess emissions for the ozone season in 2008 under the NO_x SIP Call (15A NCAC 2D .1400), the Administrator shall deduct allowances allocated under 15A NCAC 2D .2405 for the ozone season in 2009.
6. The emissions measurements recorded and reported according to 40 CFR Part 96 Subpart HHHH shall be used to determine compliance by each CAIR NO_x Ozone Season source with its emissions limitation according to 40 CFR 96.306(c) including 96.306(c)(5) and 96.306(c)(6).
7. The provisions of 40 CFR 96.306(d) shall be used for excess emissions.

C. 15A NCAC 2D .2404: SULFUR DIOXIDE EMISSIONS

1. The annual allocation of sulfur dioxide (SO₂) allowances shall be determined by EPA. The allocations for CAIR SO₂ units are listed in the table below (these allocations are from 40 CFR 73.10):

Source	Allocation for 2000-2009	Allocation for 2010 and later
4A (ES5A)	None	None

2. The affected CAIR SO₂ sources shall comply with the requirements of 15A NCAC 2D .2408 using the trading program and banking set out in 40 CFR Part 96. [15A NCAC 2D .2408]
3. The owner or operator of any unit or source covered under 15A NCAC 2D .2404 shall be subject to the provisions of 40 CFR 96.206(f). [15A NCAC 2D .2404(f)]

Monitoring/Recordkeeping/Reporting [15A NCAC 2D .2404 and .2407(a)(2)]

3. The emissions of sulfur dioxides of a source described in Section 2.4.C.1, above, shall not exceed the number of allowances that it has in its compliance account established and administered under 15A NCAC 2D .2408.
4. The owner or operator of a unit covered under 15A NCAC 2D .2404 shall comply with the monitoring, recordkeeping, and reporting requirements in 40 CFR 96.206(b) and (e) and in 40 CFR Part 96, Subpart HHH for each CAIR SO₂ unit.
5. The emissions measurements recorded and reported according to 40 CFR Part 96 Subpart HHH shall be used to determine compliance by each CAIR SO₂ source with its emissions limitation according to 40 CFR 96.206(c) including 96.206(c)(5) and 96.206(c)(6).
6. The provisions of 40 CFR 96.206(d) shall be used for excess emissions.

D. CAIR Permit Application (attached)

The permit application submitted for this facility, as approved by the Department of Environment and Natural Resources, Division of Air Quality, is part of this permit. The owner and operator of these CAIR NO_x and SO₂ sources must comply with the standard requirements and special provisions set forth in the following attached application:

CAIR Permit Application received December 23, 2008.

E. Determination of Non-Applicability

Notwithstanding the language of Sections 2.4 A through D, above, in the event the EPA determines that the Craven County Wood Energy, LP facility is not subject to the Clean Air Interstate Rules, then the Permittee shall not be considered subject to the requirements of Section 15A NCAC 2D .2400 and Sections 2.4 A through D, above, shall not apply to any sources at this facility.

SECTION 3 - GENERAL CONDITIONS (version 3.0)

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

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

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

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

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

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

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

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

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

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

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 2Q .0508(i)(2)]

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. Permit Modifications

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

H. Changes Not Requiring Permit Modifications

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

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

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

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

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

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 2D .0535 as follows:
 - a. Pursuant to 15A NCAC 2D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

Permit Deviations

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in

emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 2Q .0508(e) and 2Q .0513(b)]
This permit is issued for a fixed term of five years for facilities subject to Title IV requirements and for a term not to exceed five years in the case of all other facilities. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 2Q .0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .0508(i)(4)]
It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

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

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]
The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]
The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]
The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards,

or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;

- b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

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

6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ.

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

MM. Fugitive Dust Control Requirement [15A NCAC 2D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .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 2D .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).

1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(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 2Q .0501(d)(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 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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.

Proposed

ATTACHMENT 1 to Permit No. 06419T20
Craven County Wood Energy, L.P.

Insignificant Activities per 15A NCAC 2Q .0503(8)

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

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source 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 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit".

ATTACHMENT 2 to Permit No. 06419T20
Craven County Wood Energy, L.P.

List of Acronyms

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

**ATTACHMENT 3 to Permit No. 06419T20
Craven County Wood Energy, L.P.**

Acid Rain program permit application (4 page application)

Proposed

**ATTACHMENT 4 to Permit No. 06419T20
Craven County Wood Energy, L.P.**

Clean Air Interstate Rules permit application (5 page application)

Proposed