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Director

NORTH CAROLINA
Environmental Quality

MM DD, 2024

Mr. Mark Romano
President
Lawndale Recycling
101 West Main Street
Lawndale, NC 28090

SUBJECT: Air Quality Permit No. 10822R00
Facility ID: 2300407
Lawndale Recycling
Lawndale
Cleveland County
Fee Class: Title V
PSD Class: Minor

Dear Mr. Romano:

In accordance with your completed application received April 11, 2024, we are forwarding herewith Permit No. 10822R00 to Lawndale Recycling, Lawndale Cleveland County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to file a petition for contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other persons aggrieved to file such a petition is contained in the attached "Notice Regarding the Right to Contest a Division of Air Quality Permit Decision."

Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. Failure to do so is a violation of G.S. 143-215.108 and may subject the Permittee to civil or criminal penalties as described in G.S. 143-215.114A and 143-215.114B.

Cleveland County has triggered increment tracking under PSD for $PM_{2.5}$, PM_{10}, SO_2 and NOx. This modification/renewal will result in an increase in 2.6 pounds per hour of $PM_{2.5}$, 2.8 pounds per hour of PM_{10}, 1.9 pounds per hour of SO_2, and 37.4 pounds per hour of NOx.

This permit shall be effective from MM DD, 2024, until MM DDDD 2029, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

The Permittee is responsible for carefully reading the entire permit and evaluating the requirements of each permit stipulation. The Permittee shall comply with all terms, conditions, requirements, limitations, and restrictions set forth in this permit. 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.

Should you have any questions concerning this matter, please contact Joseph Voelker, P.E., at (919) 707-8730 or joseph.voelker@deq.nc.gov.

Sincerely yours,

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

Enclosure

c: Brad Akers, EPA Region 4 (Permit and Review)
Laserfiche (2300407)
Connie Horne (cover letter only)

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

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

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

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

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

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

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

* * *

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

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

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
10822R00	NA	MM DD, 2024	MM, DD 2031

To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations, the Permittee is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described in Section 1 below in accordance with the completed application 2300407.23A received April 11, 2024 including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environmental Quality, Division of Air Quality (DAQ) and are incorporated as part of this permit.

Permittee: **Lawndale Recycling**
Facility ID: **2300407**
Primary SIC Code: **5093**
NAICS Code: **423930**

Facility Site Location: **101 West Main Street**
City, County, State, Zip: **Lawndale, Cleveland County, North Carolina 28090**
Mailing Address: **101 West Main Street**
City, State, Zip: **Lawndale, North Carolina 28090**

Application Number(s): **2300407.23A**
Complete Application Date(s): **April 11, 2024**

Division of Air Quality, Regional Office Address: **Mooresville Regional Office**
610 East Center Avenue, Suite 301
Mooresville, North Carolina 28115

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List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-01* **(NSPS Dc, GACT JJJJJJ)**	Untreated wood pallets/resinated wood/construction and demolition wood/natural gas-fired boiler (45.98 million Btu per hour maximum heat input rate)	CD-01*	Fabric filter (8,859 square feet of filter area)
ES-02***(NSPS Dc, GACT JJJJJJ)**	Untreated wood pallets/resinated wood/construction and demolition wood/natural gas-fired boiler (30.65 million Btu per hour maximum heat input rate)		

* Pursuant to application no. 2300407.23A, these emission sources and control devices are listed as a 15A NCAC 02Q .0501(b)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation of any of these emission source(s) and/or control devices in accordance with Section 2.2 A.6.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Two boilers (ID Nos. ES-01 and ES-02) controlled by one fabric filter (ID No. CD-01)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	0.35 pounds per million Btu heat input (**when firing natural gas only**)	15A NCAC 02D .0503
Particulate Matter	0.44 pounds per million Btu heat input	15A NCAC 02D .0504
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible Emissions	20 percent opacity (**when firing natural gas only**)	15A NCAC 02D .0521
Particulate Matter (filterable)	0.030 lb/MMBtu heat input 20 percent opacity when averaged over a six-minute period	15A NCAC 02D .0524 40 CFR Part 60 Subpart Dc
Hazardous Air Pollutants	0.030 lb/MMBtu heat input of PM filterable (surrogate)	15A NCAC 02D .1111 40 CFR Part 63 Subpart JJJJJJ
Hazardous Air Pollutants	Recordkeeping requirements	40 CFR Part 241
Toxic Air Pollutants, Hazardous Air Pollutants	Testing requirement	15A NCAC 02Q .0308(a)(1)
Odors	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 02D .1806
Excess Emissions	**See Section 2.2 A.2**	15A NCAC 02D .0535
Particulate Matter	**See Section 2.2 A.3**	15A NCAC 02D .0540
-	**See Section 2.2 A.4**	15A NCAC 02Q .0304(d) and (f)
-	**See Section 2.2 A.5**	15A NCAC 02Q .0207
-	**See Section 2.2 A.6**	15A NCAC 02Q .0504

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

a. Emissions of particulate matter from the combustion of natural gas that are discharged from these sources into the atmosphere shall not exceed 0.35 pounds per million Btu heat input.

Testing [15A NCAC 02Q .0308(a)(1)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)(1)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in these sources.

2. 15A NCAC 02D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of wood that are discharged from these sources into the atmosphere shall not exceed 0.44 pounds per million Btu heat input.

Testing [15A NCAC 02Q .0308(a)(1)]

b. The following testing requirements apply:
   i. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.
   ii. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate initial compliance with the emission limit(s) above by testing these sources for particulate matter. Details of the emissions testing and

reporting requirements can be found in General Condition 17. Testing shall be completed and the results submitted within 180 days of beginning operation of each source unless an alternate date is approved by the DAQ.

ii. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate subsequent compliance with the PM emission limit in Section 2.1 A.2.a above at a frequency as specified in the GACT JJJJJJ testing provisions in Section 2.1 A.6.g.iii and iv below.

Monitoring [15A NCAC 02Q .0308(a)(1)]

c. Particulate matter emissions from these sources shall be controlled by the bagfilter. To ensure compliance, the Permittee shall meet the NSPS Subpart Dc monitoring requirements at Section 2.1 A.5.f below.

Recordkeeping [15A NCAC 02Q .0308(a)(1)]

d. The Permittee shall meet the NSPS Subpart Dc recordkeeping requirements at Section 2.1 A.5.g below.

Reporting [15A NCAC 02Q .0308(a)(1)]

e. The Permittee shall meet the NSPS Subpart Dc reporting requirements at Section 2.1 A.5.h below.

3. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

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

Testing [15A NCAC 02Q .0308(a)(1)]

b. The following testing requirements apply:
   i. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.
   ii. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit in Section 2.1 A.3.a above when firing resinated wood and construction/demolition wood. Details of the emissions testing and reporting requirements can be found in General Condition 17. Testing shall be completed and the results submitted within 180 days of beginning operation of each source unless an alternate date is approved by the DAQ.
   iii. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate subsequent compliance with the emission limit in Section 2.1 A.3.a above at a frequency as specified in the GACT JJJJJJ testing provisions in Section 2.1 A.6.g.iii and iv below.

Monitoring/Recordkeeping [15A NCAC 02Q .0308(a)(1)]

c. The following monitoring and recordkeeping requirements apply:
   i. No monitoring or recordkeeping is required for sulfur dioxide emissions from the firing of natural gas in these sources.
   ii. The Permittee shall meet the GACT JJJJJJ fuel monitoring requirements at Section 2.1 A.6.j.v below.

Reporting [15A NCAC 02Q .0308(a)(1)]

c. The following reporting requirements apply:
   i. No reporting is required for sulfur dioxide emissions from the firing of natural gas in these sources.
   ii. The Permittee shall meet the GACT JJJJJJ fuel reporting requirements at Section 2.1 A.6.k.iv below.

4. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources when firing natural gas only shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0308(a)(1)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)(1)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these sources.

5. 15A NCAC02D .0524: NEW SOURCE PERFORMANCE STANDARDS

Applicability [40 CFR 60.40c(a)]

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

Definitions and Nomenclature

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 60.41c shall apply.

Compliance Date

c. Except as specified in 40 CFR 60.8(a)(1) through (4), within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the Permittee shall conduct performance test(s) pursuant to Section 2.1 A.5.e below and submit a written report of the results of the performance test(s) [40 CFR 60.8(a)]

Emission Limitations [15A NCAC 2Q .0308(a)(1)]

d. The following emission limitations apply:
   i. On and after the date on which the initial performance test is completed or required to be completed under Section 2.1 A.4.c, whichever date comes first:
      (A) PM emissions from each boiler shall not exceed 0.030 lb/MMBtu heat input. [40 CFR 60.43c(e)(1)]
      (B) visible emissions shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43c(c)]
   ii. The PM and opacity standards apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c(d)]
   iii. No PM or opacity limits apply under 15A NCAC 02D .0524 when firing natural gas only.

Testing [15A NCAC 2Q .0308(a)(1)]

e. The following testing requirements apply:
   i. The Permittee shall conduct an initial performance test to demonstrate compliance with the PM emission limits in Section 2.1 A.5.d(i)(A) above consistent with 40 CFR 60.8 and 60.45c. [40 CFR 60.45c(a)]
   ii. The Permittee shall conduct an initial performance test to demonstrate compliance with the opacity limit in Section 2.1 A.5.d.(i)(B) above using Method 9 of Appendix A-4 of 40 CFR Subpart 60 and in accordance with 40 CFR 60.45c(a) and 40 CFR 60.47c(a). [40 CFR 60.45c(a), 60.47c(a)]
   iii. The observation period for Method 9 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation. [40 CFR 60.47c(a)]
   iv. Under the provisions of NCGS 143-215.108 and pursuant to 40 CFR 60.45c(a), the Permittee shall conduct subsequent performance tests for PM to demonstrate compliance with the PM emission limit in Section 2.1 A.5.d.i.(A) above at a frequency as specified in the GACT JJJJJJ testing provisions listed in Section 2.1 A.6.g.iii and iv below.

Monitoring [15A NCAC 2Q .0308(a)(1)]

Bag leak Detection Monitoring

f. The following bag leak detection monitoring requirements apply:
   i. The Permittee shall operate a bag leak detection system to monitor the performance of the fabric filter according to the requirements in 40 CFR 60.48Da as follows:
      (A) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per actual cubic meter (0.00044 grains per actual cubic foot) or less.
      (B) The bag leak detection system sensor must provide output of relative PM loadings. The owner or operator must continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger.)

(C) The bag leak detection system must be equipped with an alarm system that will react when the system detects an increase in relative particulate loading over the alarm set point established according to (D) below, and the alarm must be located such that it can be noticed by the appropriate plant personnel.
(D) In the initial adjustment of the bag leak detection system, the Permittee shall establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time.
(E) Following initial adjustment, the Permittee shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the DAQ.
(F) Once per quarter, the Permittee shall adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required by ii below
(G) The Permittee shall install the bag leak detection sensor downstream of the fabric filter and upstream of any wet scrubber.
(H) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

[40 CFR 60.47c(f), 60.48Da(o)(4)(i)]

ii. The Permittee shall develop and submit to DAQ for approval a site-specific monitoring plan for each bag leak detection system. The Permittee shall operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in (A) through (F) below.
(A) Installation of the bag leak detection system;
(B) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established;
(C) Operation of the bag leak detection system, including quality assurance procedures;
(D) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list;
(E) How the bag leak detection system output will be recorded and stored; and
(F) Corrective action procedures as specified in iii below. In approving the site-specific monitoring plan, the permitting authority may allow owners and operators more than 3 hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within 3 hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable.

[40 CFR 60.47c(f), 60.48Da(o)(4)(ii)]

iii. For each bag leak detection system, the Permittee shall initiate procedures to determine the cause of every alarm within 1 hour of the alarm. Except as provided in (F) below, the Permittee shall alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:
(A) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in particulate emissions;
(B) Sealing off defective bags or filter media;
(C) Replacing defective bags or filter media or otherwise repairing the control device;
(D) Sealing off a defective fabric filter compartment;
(E) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or
(F) Shutting down the process producing the particulate emissions.

[40 CFR 60.47c(f), 60.48Da(o)(4)(iii)]

iv. The Permittee shall maintain records of the information specified in (A) through (C) below for each bag leak detection system.
(A) Records of the bag leak detection system output;
(B) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and
(C) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, if procedures were initiated within 1 hour of the alarm, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and if the alarm was alleviated within 3 hours of the alarm.

[40 CFR 60.47c(f), 60.48Da(o)(4)(iv)]

v. If after any period composed of 30 boiler operating days during which the alarm rate exceeds 5 percent of the process operating time (excluding control device or process startup, shutdown, and malfunction), then the Permittee shall conduct a new PM performance test according to Section 2.1 A.5.e above. This new performance

test must be conducted within 60 calendar days of the date that the alarm rate was first determined to exceed 5 percent limit unless a waiver is granted by the DAQ.
[40 CFR 60.47c(f), 60.48Da(o)(4)(v)]

Opacity Monitoring

g. After completion of the initial performance testing in Section 2.1 A.5.e.ii above, the Permittee shall comply with visible emissions monitoring according to the following:
   i. The Permittee shall conduct subsequent Method 9 performance tests using the applicable schedule in paragraphs (A) through (D) below, as determined by the most recent Method 9 performance test results.
      (A) If no visible emissions are observed, a subsequent Method 9 performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted;
      (B) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted;
      (C) If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted; or
      (D) If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 performance test must be completed within 45 calendar days from the date that the most recent performance test was conducted.
      (E) The observation period for Method 9 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.
      [40 CFR 60.47c(a)(1)]
   ii. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test, the owner or operator may, as an alternative to performing subsequent Method 9 performance tests, elect to perform subsequent monitoring using Method 22 according to the procedures specified in paragraphs (A) and (B) below.
      (A) The Permittee shall conduct 10-minute observations (during normal operation) each operating day the affected facility fires C&D wood or resinated wood using Method 22 and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10-minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10-minute observation, immediately conduct a 30-minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30 minute period), the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (i.e., 90 seconds) or conduct a new Method 9 performance test using the procedures in paragraph (h)(i) above within 45 calendar days.
      (B) If no visible emissions are observed for 10 operating days during which C&D wood, resinated wood or untreated wood pallets is fired, observations can be reduced to once every 7 operating days during which C&D wood, resinated wood or untreated wood pallets is fired. If any visible emissions are observed, daily observations shall be resumed.
      [40 CFR 60.47c(a)(2)]
   iii. If the source is not operating on the required date for the Method 9 performance test, the performance test shall be conducted the next time the source is operated for three or more daylight hours. [40 CFR 60.8(d)]

Recordkeeping [15A NCAC 02Q .0308(a)(1)]

h. The Permittee shall:
   i. maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]
   ii. maintain records of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]
   iii. maintain records of the amounts of each fuel combusted during each operating day. [40 CFR 60.48c(g)(1)]
   iv. maintain records required in Section 2.1 A.5.f.iv above.
   v. keep the following opacity monitoring records:

(A) For each performance test conducted using Method 9 of appendix A-4 of 40 CFR 60, the owner or operator shall keep the records including the following:
(1) Dates and time intervals of all opacity observation periods;
(2) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
(3) Copies of all visible emission observer opacity field data sheets;

(B). For each performance test conducted using Method 22 of appendix A-4 of this part, the owner or operator shall keep the records including the following:
(1) Dates and time intervals of all visible emissions observation periods;
(2) Name and affiliation for each visible emission observer participating in the performance test;
(3) Copies of all visible emission observer opacity field data sheets; and
(4) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.

[40 CFR 60.48c(c)(1) and (2)]

vi. retain records for at least two years following the date of such measurements, maintenance, reports, and records. [40 CFR 60.7(f), 40 CFR 60.48c(i)]

Reporting/Notifications [15A NCAC 02Q .0308(a)(1)]

i. The Permittee shall submit:
i. a semiannual summary report of the monitoring and recordkeeping activities given in Section 2.1 a.5.f through h above, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. [40 CFR 60.48c(j)] All instances of noncompliance from the requirements of this permit must be clearly identified.
ii. for the opacity performance tests pursuant to Section 2.1 A.5.e.ii or 2.1 A.5.g above, the following:
(A) a report containing the results of the initial performance test conducted pursuant to Section 2.1 A.5.e.ii above, postmarked no later than 180 days after initial startup of the boiler while firing C&D wood or resinated wood. [40 CFR 60.8(a), 60.48c(b)].
(B) a report containing the results of subsequent performance test(s) conducted pursuant to Section 2.1 A.5.g above, postmarked no later than 30 days after completion of the performance tests. [15A NCAC 02D .2602(f), 60.48c(b)]
ii. for the PM performance tests conducted pursuant to Section 2.1 A.5.e above, the following [40 CFR 60.48c(b)]:
(A) a report containing the results of the initial PM performance test(s) conducted pursuant to Section 2.1 A.5.e.i above, postmarked no later than 180 days after the initial startup of the boiler(s) while firing C&D wood, resinated wood or untreated wood pallets. [40 CFR 60.8(a), 60.48c(b)].
(B) for the subsequent PM performance test(s) conducted pursuant to Section 2.1 A.5.e.iv above, the Permittee shall meet the GACT JJJJJJ reporting requirements at Section 2.1 A.6.m.iii below.
iii. a notification of the date construction commenced for each boiler to the Regional Supervisor, DAQ, postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1), 60.48c(a)]
iv. a notification of the actual date of initial startup of each boiler to the Regional Supervisor, DAQ, postmarked within 15 days after such date. [40 CFR 60.7(a)(3), 60.48c(a)]
v. at least 30 days advance notice of any performance test in Section 2.1 A.5.e or g above to the Regional Supervisor, DAQ to afford the DAQ the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the Permittee shall notify the Regional Supervisor as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Regional Supervisor by mutual agreement. [40 CFR 60.8(d)]

6. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.11193, 63.11194(a)(2) and (b), 63.11200(b)]

a. For these boilers (*new boilers in the biomass subcategory with no oxygen trim systems),* the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111 “Maximum Achievable Control Technology" as promulgated in 40 CFR 63 Subpart JJJJJJ (GACT JJJJJJ) "National Emission Standards for

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

Definitions and Nomenclature

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

General Provisions

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

Compliance Dates

d. The following compliance dates apply:
   i. The Permittee shall demonstrate compliance with the emission limits in **Section 2.1 A.6.f** and establish the operating limit at **Section 2.1 A.6. h.vi** below within 180 days after startup of each boiler. [40 CFR 63.11196(c), 63.11210(d)]
   ii. The Permittee shall achieve compliance with all other requirements of GACT JJJJJJ upon startup of each boiler: [40 CFR 63.11196(c]

General Compliance Requirements [15A NCAC 02Q .0308(a)(1)]

e. The following general compliance requirements apply:
   i. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11205(a)]
   ii. The emission limits in Section 2.1 A.6.f and the operating limits at Section 2.1 A.6.h.iv and vi below apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in 40 CFR 63.11237, during which time the Permittee shall comply only with Section 2.1 A.6.i below. (i.e., Table 2 to GACT JJJJJJ). [40 CFR 63.11201(d)]

Emission Limitations [15A NCAC 02Q .0308(a)(1)]

f. The following emission limits apply to the boilers:

Pollutant	Emission Limit
Filterable Particulate Matter	3.0 E-2 lb per MMBtu of heat input (PM)

[40 CFR 63.11201(a), Table 1 to GACT JJJJJJ]

Testing Requirements [15A NCAC 02Q .0308(a)(1)]

g. The following testing requirements apply:
   i. If emissions testing is required, the testing shall be performed in accordance with 40 CFR 63.11212. [40 CFR 63.11212]
   ii. The Permittee shall demonstrate initial compliance with the applicable emission limits in Section 2.1 A.5.f above within 180 days after startup of the source [40 CFR 63.7(a)(2)(ix), 63.11210(d)].
   iii. The Permittee shall conduct all applicable performance stack tests according to 40 CFR 63.11212 on a triennial basis, except as specified in iv below. Triennial performance tests must be completed no more than 37 months after the previous performance test. [40 CFR 63.11220(a)]
   iv. When demonstrating initial compliance with the PM emission limit, if the boiler's performance test results show that the PM emissions are equal to or less than half of the PM emission limit, the Permittee may choose to conduct performance tests for PM every fifth year, but shall continue to comply with all applicable operating limits and monitoring requirements and shall comply with the provisions as specified below.
      (A) Each such performance test must be conducted no more than 61 months after the previous performance test.

(B) If the Permittee intends to burn a new type of fuel other than ultra-low-sulfur liquid fuel or natural gas as defined in 40 CFR 63.11237, you must conduct a performance test within 60 days of burning the new fuel type.
(C)-If the performance test results show that the PM emissions are greater than half of the PM emission limit, the Permittee shall conduct subsequent performance tests on a triennial basis as specified in g.iii above.
[40 CFR 63.11220(c)]

Monitoring Requirements [15A NCAC 02Q .0308(a)(1)]

h. The following monitoring requirements apply:
   i. The Permittee shall develop a site-specific monitoring plan according to the requirements in 40 CFR 63.11224(c). [40 CFR 63.11205(c), 63.11224(c)]
   ii. The Permittee shall monitor and collect data according to 40 CFR 63.11221 and the site-specific monitoring plan. [40 CFR 63.11221]
   iii. The Permittee shall install, calibrate, maintain, and continuously operate a bag leak detection system(s) as specified below:
      (A) The Permittee shall install and operate a bag leak detection system for each exhaust stack of the fabric filter.
      (B) Each bag leak detection system must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with EPA-454/R-98-015 (incorporated by reference, see 40 CFR 63.14).
      (C) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.
      (D) The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.
      (E) The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor.
      (F) The bag leak detection system must be equipped with an audible or visual alarm system that will activate automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard or seen by plant operating personnel.
      (G) For positive pressure fabric filter systems that do not duct all compartments or cells to a common stack, a bag leak detection system must be installed in each baghouse compartment or cell.
      (H) Where multiple bag leak detectors are required, the system's instrumentation and alarm may be shared among detectors.
      [40 CFR 63.11224(f)]
   iv. The operating limit for boilers with fabric filters that demonstrate continuous compliance through bag leak detection systems is that a bag leak detection system be installed according to iii above (i.e., 40 CFR 63.11224), and that each fabric filter must be operated such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month period. [40 CFR 63.11201(c), 63.11211(b)(4), Table 3 and Table 7 to GACT JJJJJJ]
   v. In order to demonstrate continuous compliance using a bag leak detection system:
      (A) The Permittee shall initiate corrective action within 1 hour of a bag leak detection system alarm and operate and maintain the fabric filter system such that the alarm does not sound more than 5 percent of the operating time during a 6-month period.
      (B) The Permittee shall also keep records of the date, time, and duration of each alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken.
      (C) The Permittee shall also record the percent of the operating time during each 6-month period that the alarm sounds. In calculating this operating time percentage, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.
      (D) If corrective action is required, each alarm is counted as a minimum of 1 hour. If it takes longer than 1 hour to initiate corrective action, the alarm time is counted as the actual amount of time taken to initiate corrective action.
      [40 CFR 63.11222(a)(4)]
   vi. The Permittee shall install, operate, and maintain a continuous operating system (CMS) for operating load for each boiler such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. The permittee shall demonstrate continuous compliance with the operating load limits by:
      (A) collecting operating load data (fuel feed rate or steam generation data) every 15 minutes.

(B) reducing the data to 30-day rolling averages; and
(C) maintaining the 30-day rolling average at or below the operating limits established during the most recent performance test according to 40 CFR 63.11212(c) and Table 6 GACT JJJJJJ.
[40 CFR 63.11201(c), Table 3 and 7 to GACT JJJJJJ]

vii. The Permittee shall meet the requirements for the operating load continuous monitoring system (CMS) according to 40 CFR 63.11224(d). [40 CFR 63.11224(d)].

viii. Operation above the established range of the operating load in vi.(C) above constitutes a deviation from the operating limits, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. Operating limits are confirmed or reestablished during performance tests. [40 CFR 63.11222(a)(1)].

Work Practice Requirements [15A NCAC 02Q .0308(a)(1)]

i. The following work practice standards apply:
   i. The Permittee shall conduct a tune-up biennially while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up, as specified below:
      (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
      (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
      (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
      (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject.
      (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
      (F) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
      [40 CFR 63.11201(b), 63.11223(a), (b), Table 2 to GACT JJJJJJ]
   ii. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. [40 CFR 63.11223(b)]
   iii. The Permittee shall minimize the boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, you must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. [40 CFR 63.11214(d), 63.11223(g), Table 2 to GACT JJJJJJ]

Recordkeeping [15A NCAC 02Q .0308(a)(1)]

j. The Permittee shall:
   i. keep a copy of each notification and report that was submitted to comply with GACT JJJJJJ and all documentation supporting any Notification of Compliance Status that was submitted. [40 CFR 63.11225(c)(1), 63.10(b)(2)(xiv)]
   ii. maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (A) through (C) below:
      (A) the concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
      (B) a description of any corrective actions taken as a part of the tune-up of the boiler.
      (C) the type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
      [40 CFR 63.11223(b)(6)]

iii. keep records to document conformance with the performance tune-ups. The records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. [40 CFR 63.11225(c)(2)(i)]
iv. for operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a). [40 CFR 63.11225(c)(2)(ii)]
v. keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used. [40 CFR 63.11225(c)(2)(iv)]
vi. keep records of the occurrence and duration of each malfunction of the boiler or of the associated air pollution control and monitoring equipment. [40 CFR 63.11225(c)(4)]
vii. keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Section 2.1 A.6.e.i, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11225(c)(5)]
viii. for each bag leak detection system, keep the records specified below:
(A) Records of the bag leak detection system output.
(B) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings.
(C) The date and time of all bag leak detection system alarms, and for each valid alarm, the time you initiated corrective action, the corrective action taken, and the date on which corrective action was completed.
[40 CFR 63.11225(c)(7)]
ix. records of monitoring system data required at Section 2.1 A.6.h.ii above [40 CFR 63.11225(c)(6)]
x. keep:
(A) records in a form suitable and readily available for expeditious review;
(B) each record for 5 years following the date of each recorded action; and
(C) each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years.
[40 CFR 63.11225(d)]

Reporting [15A NCAC 02Q .0308(a)(1)]

Compliance Certification Reporting

k. The Permittee shall an annual compliance certification report for the previous calendar year containing the information specified below to the DAQ in accordance with Section 4.1. The Permittee shall submit the report postmarked on or before March 15 of each calendar year for the preceding calendar year. The report shall contain the information below.
i. Company name and address.
ii. Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. The notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
(A) "This facility complies with the requirements in 40 CFR 63.11223 (i.e., Section 2.1 A.6.i) to conduct a biennial tune-up of each boiler."
(B) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
(C) "This facility complies with the requirement in 40 CFR 63.11214(d) and 63.11223(g) (i.e., Section 2.1 A.6.i.iii) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."
iii. If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. [40 CFR 63.11222(b)]
iv. The total fuel use by each affected boiler for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination through a petition process to be a non-waste under 40 CFR 241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and the total fuel usage amount with units of measure.
[40 CFR 63.11225(b)]

Notification of Compliance Status (NOCS) reporting

l. The following NOCS reporting requirements apply:
   i. The Permittee shall submit a NOCS within 60 days of completing the initial stack test for each boiler. The NOCS shall include the information and certification(s) of compliance below and signed by a responsible official. [40 CFR 63.11225(a)(4)]
      (A) The Permittee shall submit the information required in 40 CFR 63.9(h)(2), except the information listed in 40 CFR 63.9(h)(2)(i)(B), (D), (E), and (F).
      (B) For units that install bag leak detection systems: "This facility complies with the requirements in 40 CFR 63.11224(f) (i.e., Section 2.1 A.6.h.iii)."
      (C) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
      (D) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13.
      [40 CFR 63.11225(a)(4)]
   ii. The Permittee shall also submit the NOCS required in i above to the DAQ within 60 days after the date of completing the initial performance test in accordance with Section 4.1.

Performance Test Reporting

m. The following performance testing reporting requirements apply:
   i. If required to conduct a performance stack test the Permittee shall submit a Notification of Intent to conduct a performance test to the DAQ at least 60 days before the performance stack test is scheduled to begin in accordance with Section 4.1. 40 CFR 63.11225(a)(3)]
   ii. Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.2) required by GACT JJJJJJ, the Permittee shall submit the results of the performance tests, including any associated fuel analyses, following the procedures below:
      (A) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (https://www3.epa.gov/ttn/chief/ert/ert_info.html) at the time of the test, you must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/).) Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. If you claim that some of the performance test information being submitted is confidential business information (CBI), you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.
      (B) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in §63.13.
      [40 CFR 63.11225(e)]
   iii. The Permittee shall also submit the reports required in ii above to the DAQ within 60 days after the date of completing each performance test in accordance with Section 4.1.

7. 40 CFR 241: Solid Wastes Used as Fuels or Ingredients in Combustion Units

a. Pursuant to 40 CFR 241.2, untreated wood pallets are considered clean cellulosic biomass and are not secondary materials or solid wastes unless discarded.
b. Pursuant to 40 CFR 241.4(a), the following materials as defined at 40 CFR 241.2 are not solid wastes when combusted as a fuel in the boilers.
   i. Resinated wood.
   ii. Construction and demolition (C&D) wood processed from C&D debris according to best management practices.

Monitoring Requirements [15A NCAC 02Q .0308(a)(1)]

c. The following monitoring and recordkeeping requirements apply:
   i. The Permittee shall meet the GACT JJJJJJ recordkeeping requirements at Section 2.1 A.6.j.iv.
   ii. Records kept shall be sufficient to determine if each fuel combusted listed in Section 2.1 A.7.a and b above meets its respective definition in 40 CFR 241.2.
   iii. For the C&D wood, the Permittee shall meet all monitoring and recordkeeping requirements at 40 CFR 241.4(a)(5).

8. 15A NCAC 02Q .0308(a)(1) Testing Requirement

a. In order to verify that the facility is an area source of HAP and therefore not subject to 40 CFR Part 63 Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and to verify that the operation of the boilers do not pose an unacceptable risk to human health pursuant to NCG.S. 143-215.107(a)(5)b, under the provisions of NCGS 143-215.108, the Permittee shall conduct a source test on the boilers for the pollutants listed below in accordance with a testing protocol approved by the DAQ.
b. Testing shall be conducted when combusting materials that are expected to produce worst case emissions. Details of the emissions testing and reporting requirements can be found in General Condition 17.
c. Consistent with 15A NCAC 02D .2602(b), the test protocol shall be submitted to the DAQ at least 45 days before conducting the test and request the DAQ review the testing protocol for pre-approval prior to testing.
d. Testing shall be completed and the results submitted within 180 days of beginning operation unless an alternate date is approved by the DAQ.

Pollutant	CAS No.
Benzene	71-43-2
Arsenic Unlisted Compounds (component of ASC)	ASC-other
Cadmium Metal (unreacted) (component of CDC)	7440-43-9
Acrolein	107-02-8
Manganese Unlisted Compounds (component of MNC)	MNC-other
Formaldehyde	50-00-0
Hydrogen chloride (hydrochloric acid)	7647-01-0
Beryllium Metal (unreacted) (component of BEC)	7440-41-7
Chlorine	7782-50-5

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide emission sources

State-enforceable only

1. 15A NCAC 02D .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. NOTIFICATION REQUIREMENT

As required by 15A NCAC 02D .0535, the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:

a. Notify the Director or his designee 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 describe:
   i. the name and location of the facility,
   ii. the nature and cause of the malfunction or breakdown,
   iii. the time when the malfunction or breakdown is first observed,
   iv. the expected duration, and
   v. an estimated rate of emissions.

b. Notify the Director or his designee immediately when the corrective measures have been accomplished. This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

3. FUGITIVE DUST CONTROL REQUIREMENT

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

"Fugitive dust emissions" means particulate matter 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, stockpile working, plant parking lots, and plant roads (including access roads and haul roads).

4. PERMIT RENEWAL REQUIREMENT

The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 02Q .0304(d) and (f). Pursuant to 15A NCAC 02Q .0203(i), no permit application fee is required for renewal of an existing air permit (without a modification request). The renewal request (with AA application form) should be submitted to the Regional Supervisor, DAQ.

5. ANNUAL EMISSION INVENTORY REQUIREMENT

Pursuant to 15A NCAC 02Q .0207, the Permittee shall submit an air pollution emission inventory report (with Certification Sheet) by June 30 of each year in accordance with 15A NCAC 02Q .0207(a). The report shall include the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year and be submitted to the Regional Supervisor, DAQ. 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 as defined under 40 CFR 70.2.

6. 15A NCAC 02Q .0504: OPTION FOR OBTAINING CONSTRUCTION AND OPERATION PERMIT

Permitting [15A NCAC 02Q .0504(c)]

a. Pursuant to 15A NCAC 02Q .0501(b)(2) for completion of the two-step significant modification process initiated by Application No. 2300407.23A, the Permittee shall file an amended application following the procedures of Section 15A NCAC 02Q .0500 within one year from the date of beginning operation of any sources.

Reporting [15A NCAC 02Q .0308(a)(1)]

b. The Permittee shall notify the Regional Office in writing of the date of beginning operation of any sources postmarked no later than 30 days after such date.

SECTION 3 - Insignificant Activities per 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description[1,2]
IES-01 and IES-02	Two untreated wood pallets/resinated wood/construction and demolition wood shredders located indoors (80 tons per hour maximum capacity each)
IES-03	One plastics shredder located indoors (80 tons per hour maximum capacity)

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

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

SECTION 4 - GENERAL CONDITIONS AND LIMITATIONS

1. In accordance with G.S. 143-215.108(c)(1), TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

   Regional Supervisor
   North Carolina Division of Air Quality
   Raleigh Regional Office
   3800 Barrett Drive
   Raleigh, NC 27609
   919-791-4200

   For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

2. RECORDS RETENTION REQUIREMENT - In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.

3. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.

4. EQUIPMENT RELOCATION - In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.

5. REPORTING REQUIREMENT - In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application regarding facility emissions;
   b. changes that modify equipment or processes of existing permitted facilities; 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.

6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effectuate 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 cleaning device(s) and appurtenances.

7. CHANGES NOT REQUIRING PERMIT REVISIONS - Pursuant to 15A NCAC 02Q .0318, changes to the facility that are not exempt pursuant to 15A NCAC 02Q .0102 may be allowed without first modifying an applicable air permit if the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5) and the owner or operator notifies the Director in writing, using forms provided by the Division, seven calendar days before the change is made. Within 10 business days of receipt of the notice, the Division shall notify the owner or operator of its determination of whether the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5).

8. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.

9. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.

10. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.

11. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.

12. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

13. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such 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.

14. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.

15. PERMIT RETENTION REQUIREMENT - In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.

16. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - 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 all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval. Additionally, in accordance with 15A NCAC 2D .0605, the Permittee shall follow the procedures for obtaining any required audit sample and reporting those results.

Permit issued this the DDth day of MM, 2024.

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Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission
Air Permit No. 10822R00