ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

MM DD, 2022

Mr. Pedro Romero
Glass Mat General Manager
CertainTeed, LLC
200 CertainTeed Road
Oxford, NC 27565

SUBJECT: Air Quality Permit No. 10773R00
Facility ID: 3900120
CertainTeed, LLC
Oxford
Granville County
Fee Class: Title V
PSD Class: Minor

Dear Mr. Romero:

In accordance with your completed application received December 16, 2022, we are forwarding herewith Permit No. 10773R00 to CertainTeed LLC, Oxford, Granville 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.

Granville County has not triggered increment tracking under PSD for any pollutants, so no tracking is required.

This permit shall be effective from MM DD, YYYY until MM DD, YYYY, 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@ncdenr.gov.

Sincerely yours,

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

Enclosure

c: Brad Akers, EPA Region 4 (Permit and Review)
Laserfische (3900120)
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
10773R00	NA	MM DD, 2022	MM DD, YYYY

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 3900120.22A received December 16, 2022 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: **CertainTeed LLC**
Facility ID: **3900120**
Primary SIC Code: **3229**
NAICS Code: **327212**

Facility Site Location: **200 CertainTeed Drive**
City, County, State, Zip: **Oxford Granville County, North Carolina 27565**
Mailing Address: **200 CertainTeed Drive**
City, State, Zip: **Oxford, North Carolina 27565**

Application Number(s): **3900120.22A**
Complete Application Date(s): **December 16, 2022**

Division of Air Quality, Regional Office Address: **Raleigh Regional Office**
3800 Barrett Drive
Raleigh, North Carolina 27609

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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-FPL*	Fiberglass mat production line	NA	NA
ES-MDC* **MACT HHHH**	Natural gas-fired mat curing and drying oven (135 million Btu per hour maximum heat input)	CD-RTO1* CD-RTO2*	Two natural gas-fired regenerative thermal oxidizers (9.8 million Btu per hour maximum heat input rate, each)
ES-MFA*	Mat finishing area	CD-DC1*	Dust collector (1,808 square feet of filter area)

* Pursuant to application no. 3900120.22A, 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.8.

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. One fiberglass mat production line (ID No. ES-FPL)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E=4.10 \times P^{0.67}$, for process rates $\leq$ 30 tons per hour, OR $E=55 \times P^{0.11} - 40$, for process rates > 30 tons per hour Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 02D .1100
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 02D .1806
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 02Q .0711
Excess Emissions	**See Section 2.2 A.4**	15A NCAC 02D .0535
Particulate Matter	**See Section 2.2 A.5**	15A NCAC 02D .0540
-	**See Section 2.2 A.6**	15A NCAC 02Q .0304(d) and (f)
-	**See Section 2.2 A.7**	15A NCAC 02Q .0207
-	**See Section 2.2 A.8**	15 A NCAC 02Q .0504

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

a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation:

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

Where E = allowable emission rate in pounds per hour
P = process weight in tons per hour

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

Testing [15A NCAC 02Q .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. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above, can be derived and shall make these records available to a DAQ authorized representative upon request.

d. No reporting is required for particulate emissions from this source.

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

a. Visible emissions from this source 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 [15A NCAC 02Q .0308(a)(1)]

c. To ensure compliance, once a week the Permittee shall observe the emission points of this source 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. The Permittee shall establish "normal" for this source within the first 30 days of beginning operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

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

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.

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.

B. Natural gas-fired mat curing and drying oven (135 million Btu per hour maximum heat input) (ID No. ES-MDC) controlled by two natural gas-fired-regenerative thermal oxidizers (9.8 million Btu per hour maximum heat input rate, each) (ID No. CD-RTO1 and CD-RTO2) operating in parallel and exhausting to a common stack

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E=4.10 \times P^{0.67}$, for process rates $\leq$ 30 tons per hour, OR $E=55 \times P^{0.11} - 40$, for process rates > 30 tons per hour Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 02D .1100
Hazardous Air Pollutants	Reduce formaldehyde emissions by 96 percent or more	15A NCAC 02D .1111 (40 CFR Part 63 Subpart HHHH)
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 02D .1806
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 02Q .0711
Excess Emissions	**See Section 2.2 A.4**	15A NCAC 02D .0535
Particulate Matter	**See Section 2.2 A.5**	15A NCAC 02D .0540
-	**See Section 2.2 A.6**	15A NCAC 02Q .0304(d) and (f)
-	**See Section 2.2 A.7**	15A NCAC 02Q .0207
-	**See Section 2.2 A.8**	15A NCAC 02Q .0504

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

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

Testing [15A NCAC 02Q .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 sulfur dioxide emissions from the firing of natural gas in this source.

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

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

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

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

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

c. To ensure compliance, once a week the Permittee shall observe the emission points of this source 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. The Permittee shall establish "normal" for this source in the first 30 days of beginning operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a above.

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

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.

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 B.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.

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

Applicability
[40 CFR 63.2981, 63.2982]

a. For the source **(ID No. ES-MDC**) the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" as promulgated in 40 CFR 63 Subpart HHHH "National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production" and Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.3004 shall apply. [40 CFR 63.3004]

40 CFR Part 63 Subpart A General Provisions

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A "General Provisions" as identified in Table 2 to 40 CFR Part 63 Subpart HHHH. [40 CFR 63.3001]

Compliance Date

d. The Permittee shall be in compliance with the requirements of Section 2.1 B.3 upon startup. [40 CFR 63.2985(d), 63.2986(g)(1)]

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

e. The Permittee shall limit the formaldehyde emissions from the source by either:
   i. limiting emissions of formaldehyde to 0.05 pounds per ton of fiberglass mat produced; or
   ii. reducing uncontrolled formaldehyde emissions by 96 percent or more.
   [40 CFR 63.2983]

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

f. The following test requirements apply:
   i. If performance testing is required, the testing shall be performed in accordance General Condition 17.
   ii. All testing shall be conducted according to the requirements of 40 CFR 63.2991, 63.2992 and 63.2993.[40 CFR 63.2986(c)]

iii. The Permittee shall conduct a performance test to demonstrate initial compliance and to establish operating parameter limits and ranges to be used to demonstrate continuous compliance with the emission standards no later than 180 days after the applicable compliance date specified in Section 2.1 B.3.d above. [40 CFR 63.2991(a), 63.2986(c)]
iv. Each repeat performance test shall be conducted within five years of the previous performance test. [40 CFR 63.2991(b)]
v. The Permittee shall conduct a performance test to change the limit or range for any operating limit specified in the OMM plan established during a previous performance test. [40 CFR 63.2991(c)]
vi. Before each performance test, the Permittee shall meet the requirements of 40 CFR 63.2994(a) for all process equipment, control devices and monitoring equipment associated with this source. [40 CFR 63.2994(a)]

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

g. The following compliance requirements apply:
i. The Permittee shall install, maintain, and operate a thermal oxidizer(s) that reduces formaldehyde emissions from each drying and curing oven to the emission limits specified in Section 2.1 B.3.e above. [40 CFR 63.2986(a)]
ii. The Permittee shall begin complying with the operating limits specified Section 2.1 B.3.i below on the date by which the Permittee shall complete the initial performance test. [40 CFR 63.2986(b)]
iii. The Permittee shall prepare and follow a written operation, maintenance, and monitoring (OMM) plan as specified in 40 CFR 63.2987(a) through (d). [40 CFR 63.2986(e)]
(A) The OMM plan shall specify:
(1) each process and control device to be monitored, the type of monitoring device that will be used, and the operating parameters that will be monitored.
(2) a monitoring schedule that specifies the frequency that the parameter values will be determined and recorded.
(3) the operating limits or ranges for each parameter that represent continuous compliance with the emission limits in Section 2.1 B.3.e. Operating limits and ranges must be based on values of the monitored parameters recorded during performance tests.
[40 CFR 63.2987(a)]
(B) Changes to the OMM plan shall be made pursuant to 40 CFR 63.2989. [40 CFR 63.2989]
(C) The Permittee shall operate the source according to the OMM plan at all times. [40 CFR 63.2984(d)]
iv. The Permittee shall be in compliance with the emission limits in Section 2.1 B.3.e above and the operating limits in Section 2.1.B.3.i below at all times, including periods of startup, shutdown, or malfunction. [40 CFR 63.2986(g)(1)]
v. 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 you to make any further efforts to reduce emissions if you are in compliance with the emissions limits required by this subpart. The Administrator will base the determination of whether a source is operating in compliance with operation and maintenance requirements on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.2986(g)(2)]

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

h. The following monitoring requirements apply:
i. The Permittee shall install, calibrate, maintain, and operate devices that monitor the parameters specified in the OMM plan at the frequency specified in the plan. [40 CFR 63.2986(d)]
ii. The Permittee shall install, calibrate, maintain, and operate a device to monitor and record continuously the thermal oxidizer(s) temperature at the exit of the combustion zone before any substantial heat exchange occurs or at the location consistent with the manufacturer's recommendations. [40 CFR 63.2997(a)(1)]
iii. The Permittee shall continuously monitor the thermal oxidizer(s) temperature and determine and record the average temperature in 15-minute and 3-hour block averages. The Permittee may determine the average temperature more frequently than every 15 minutes and every 3 hours, but not less frequently. [40 CFR 63.2996(a), 63.2997(a)(2)]
iv. The Permittee shall monitor the following parameters, at a minimum, at the corresponding frequencies presented below. [40 CFR 63.2996(a), Table 1 to 40 CFR 63 Subpart HHHH]

Monitor these parameters:	At this frequency:	And record for the monitored parameter:
Other parameters specified in the OMM plan	As specified in the OMM Plan	As specified in the OMM Plan
Urea-formaldehyde resin solids application rate	On each operating day, calculate the average lb/h application rate for each product manufactured during that day	The average lb/h value for each product manufactured during the day.
Resin free-formaldehyde content	For each lot of resin purchased	The value for each lot used during the operating day.

v. The Permittee shall monitor the following parameters, at a minimum, at the corresponding frequencies presented below These parameters shall be monitored, and values recorded, but no operating limits apply. [[40 CFR 63.2996(a), Table 1 to 40 CFR 63 Subpart HHHH]

Monitor these parameters:	At this frequency:	And record for the monitored parameter:
Loss-on-ignition	Measured at least once per day, for each product manufactured during that day	The value for each product manufactured during the operating day.
UF-to-latex ratio in the binder	For each batch of binder prepared the operating day	The value for each batch of binder prepared during the operating day.
Weight of the final mat product per square (lb/roofing square)	Each product manufactured during the operating day	The value for each product manufactured during the operating day.
Average nonwoven wet-formed fiberglass mat production rate (roofing square/h)	For each product manufactured during the operating day	The average value for each product manufactured during operating day.

vi. During periods when using a non-HAP binder, the Permittee is not required to monitor the thermal oxidizer(s) temperature or the parameters in Section 2.1 B.3.iv and v above. [40 CFR 63.2996(b)] If the temperature and/or these parameters are not monitored during periods when using a non-HAP binder, the Permittee shall record the dates and times that production of mat using the non-HAP binder began and ended. [40 CFR 63.2998(c), Table 1 to 40 CFR 63 Subpart HHHH]

vii. All continuous parameter monitoring systems shall be installed and operating no later than the applicable compliance date specified in Section 2.1 B.3.d above. [40 CFR 63.2986(d)]

viii. The temperature monitoring device for the thermal oxidizer(s) shall meet the performance and equipment specifications in 40 CFR 63.2994(b). [40 CFR 63.2994(b)]

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

i. The following operating limits apply.

i. The Permittee shall maintain operating parameters within established limits or ranges specified in the operation, maintenance, and monitoring (OMM) plan described in 40 CFR 63.2987. If there is a deviation of any of the specified parameters from the limit or range specified in the OMM plan, the Permittee shall address the deviation according to Section 2.1 B.3.i.ii below. The Permittee shall comply with the operating limits specified in paragraphs (A) through (C) below.

(A) The Permittee shall operate the thermal oxidizer(s) so that the average operating temperature in any 3-hour block period does not fall below the temperature established during the performance test and specified in the OMM plan, except during periods when using a non-HAP binder.

(B) The Permittee shall not use a resin with a free-formaldehyde content greater than that of the resin used during the performance test and specified in the OMM plan.

(C) The Permittee shall operate the wet-formed fiberglass mat production process so that the average urea formaldehyde resin solids application rate in any 3-hour block period does not exceed the average application rate achieved during the performance test and specified in the OMM plan.

ii. When during a period of normal operation, an operating parameter that deviates from the limit or range established in Section 2.1 B.3.i.i above is detected, the Permittee shall initiate corrective actions within 1 hour according to the provisions of the OMM plan. The corrective actions must be completed in an expeditious manner as specified in the OMM plan.

iii. The Permittee shall maintain and inspect control devices according to the procedures specified in the OMM plan.
iv. The Permittee shall include the operating limits specified in Section 2.1 B.3.i.i.(A) through (C) above and their allowable ranges or levels in the OMM plan.
v. The Permittee shall capture and convey the formaldehyde emissions from the source according to the procedures in Chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice" (23rd Edition) or the appropriate chapters of "Industrial Ventilation: A Manual of Recommended Practice for Design" (27th Edition). In addition, the Permittee may use an alternate as approved by the Administrator.

[40 CFR 63.2984]

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

j. The following recordkeeping requirements apply:
i. The Permittee shall maintain records according to the procedures of 40 CFR 63.10. [40 CFR 63.2998]
ii. The Permittee shall maintain the following records.
(A) all records required by 40 CFR 63.10, where applicable. Section 2.1 B.3.c presents the applicable requirements of the general provisions. [40 CFR 63.2998(a)]
(B) the OMM plan. [40 CFR 63.2998(b)]
(C) during periods when the binder formulation being applied contains HAP, records of values of monitored parameters listed in Section 2.1 B.3.h.iii, iv and v. If these parameters are not monitored during periods when using non-HAP binder, record the dates and times that production of mat using non-HAP binder began and ended. [40 CFR 63.2998(c)]
(D) records of maintenance and inspections performed on the control device. [40 CFR 63.2998(d)]
(E) In the event that an affected source fails to meet an applicable standard, including deviations from an emission limit in Section 2.1 B.3.e (i.e., 40 CFR 63.2983) or an operating limit in Section 2.1 B.3.i. (i.e., 40 CFR 63.2984), the Permittee shall record the number of failures and, for each failure, the Permittee shall:
(1) record the date, time, and duration of the failure;
(2) describe the cause of the failure;
(3) record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions; and
(4) record actions taken to minimize emissions in accordance with Section 2.1 B.3.g.v and any corrective actions taken to return the affected unit to its normal or usual manner of operation and/or to return the operating parameter to the limit or to within the range specified in the OMM plan, and the dates and times at which corrective actions were initiated and completed.

[40 CFR 63.2998(g)]
(F) If the process or thermal oxidizer(s) is operated under an alternative operating condition and operating limits have been established for each condition as specified in 40 CFR 63.2989(c), the Permittee shall keep records of the date and time operations changed from one condition to another, the condition under which the process and thermal oxidizer(s) are operating, and the applicable operating limits for that condition. [40 CFR 63.2998(h)]
(G) records showing how the maximum residence time of the thermal oxidizer(s) was derived. [40 CFR 63.2998(h)]
iii. The following records retention requirements apply:
(A) The Permittee shall maintain each record required by Section 2.1 B.3 for 5 years. The Permittee shall maintain the most recent 2 years of records at the facility. The remaining 3 years of records may be retained offsite.
(B) The records must be readily available and in a form so they can be easily inspected and reviewed. The Permittee may keep the records on paper or an alternative medium, such as microfilm, computer, computer disks, compact disk, digital versatile disk, flash drive, other commonly used electronic storage medium, magnetic tape, or on microfiche.
(C) The Permittee may maintain any records submitted electronically via the EPA's Compliance and Emissions Data Reporting Interface (CEDRI) in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an onsite compliance evaluation.

[40 CFR 63.2999]

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

Semiannual reporting requirements

k. The following semiannual reporting requirements apply:
   i. The Permittee shall submit a compliance report semiannually to the DAQ postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit must be clearly identified. [40 CFR 63.3000(c)(2)]
   ii. The semiannual compliance report shall contain the information below:
      (A) Company name and address.
      (B) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
      (C) Date of report and beginning and ending dates of the reporting period.
      (D) A summary of the total duration of continuous parameter monitoring system downtime during the semiannual reporting period and the total duration of continuous parameter monitoring system downtime as a percent of the total source operating time during that semiannual reporting period.
      (E) The date of the latest continuous parameter monitoring system certification or audit.
      (F) A description of any changes in the wet-formed fiberglass mat manufacturing process, continuous parameter monitoring system, or add-on control device since the last semiannual reporting period.
      [40 CFR 63.3000(c)(3)]
   iii. If there were no instances where the source failed to meet an applicable standard, including no deviations from the emission limit in Section 2.1 B.3.e or the operating limits in Section 2.1 B.3.i above, the semiannual compliance report must include a statement to that effect. [40 CFR 63.3000(c)(4)]
   iv. If there were no periods during which the continuous parameter monitoring systems were out-of-control as specified in 40 CFR 63.8(c)(7), the semiannual compliance report must include a statement to that effect. [40 CFR 63.3000(c)(4)]
   v. If there was an instance where the source failed to meet an applicable standard, including a deviation from the emission limit in Section 2.1 B.3.e or an operating limit in Section 2.1 B.3.i, the semiannual compliance report must record the number of failures and contain the following information:
      (A) the date, time, and duration of each failure.
      (B) the date and time that each continuous parameter monitoring system was inoperative, except for zero (low-level) and high-level checks.
      (C) the date, time, and duration that each continuous parameter monitoring system was out-of-control, including the information in § 63.8(c)(8).
      (D) a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
      (E) the date and time that corrective actions were taken, a description of the cause of the failure (including unknown cause, if applicable), and a description of the corrective actions taken.
      (F) a summary of the total duration of each failure during the semiannual reporting period and the total duration as a percent of the total source operating time during that semiannual reporting period.
      (G) a breakdown of the total duration of the failures during the semiannual reporting period into those that were due to control equipment problems, process problems, other known causes, and other unknown causes.
      (H) a brief description of the associated process units.
      (I) a brief description of the associated continuous parameter monitoring system.
      [40 CFR 63.3000(c)(6)]
   vi. The semiannual compliance report shall include a copy of the current OMM plan. If the OMM plan has not been revised since the previous semiannual report, the Permittee may state in the semiannual report that the previously submitted OMM plan is still in effect.

Performance test reporting requirements

l. The following performance testing reporting requirements apply:
   i. The Permittee shall submit the results of each performance test required in Section 2.1 B.3.f above no later than 60 days after completing the test. The results of the performance test shall be submitted to the EPA electronically following the procedures specified in 40 CFR 63.000(e)(1) through (3), and if applicable, (f) ("*Claims of EPA system outage"*) or (g) ("*Claims of force majeure"*).
      (A) The results shall contain the information required in 40 CR 63.7(g). [Table 2 to 40 CFR 63 Subpart HHHH]

(B) The results shall include the values measured during the performance test for the parameters listed in Section 2.1 B.3.h.iv and v and the operating limits or ranges that will be included in the OMM plan.
(C) For the thermal oxidizer(s) temperature, the results shall include 15-minute averages and the average for the three 1-hour test runs.
[40 CFR 63.3000(e)]

ii. The Permittee shall submit a written notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as specified in 40 CFR 63.7(b)(1). [Table 2 to 40 CFR 63 Subpart HHHH]

iii. A report of the results of each performance test shall also be submitted to the DAQ pursuant to General Condition 1. The report shall be submitted before the close of business on the 60th calendar day after the performance test is completed and shall include the Notification of Compliance Status, including the performance test results, the operating limits or ranges as determined during the performance test, and other information specified in 40 CFR 63.9(h). [40 CFR 63.3000(b)]

iv. In addition to the information included in the report submitted pursuant to Section 2.1 B.3.l.iii above, the Permittee shall include sufficient information, deemed acceptable by the DAQ, such that a determination can be made that the drying oven emissions are being captured and conveyed according to the requirements of Section 2.1 B.3.i.v above.

C. Mat line finishing area (ID No. ES-MFA) controlled by a dust collector (1,808 square feet of filter area) (ID No. CD-DC1)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E=4.10 \times P^{0.67}$, for process rates $\leq$ 30 tons per hour, OR $E=55 \times P^{0.11} - 40$, for process rates > 30 tons per hour Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 02D .1100
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 02D .1806
Toxic Air Pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 02Q .0711
Excess Emissions	**See Section 2.2 A.4**	15A NCAC 02D .0535
Particulate Matter	**See Section 2.2 A.5**	15A NCAC 02D .0540
-	**See Section 2.2 A.6**	15A NCAC 02Q .0304(d) and (f)
-	**See Section 2.2 A.7**	15A NCAC 02Q .0207
-	**See Section 2.2 A.8**	15A NCAC 02Q .0504

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

a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation:

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

Where E = allowable emission rate in pounds per hour
P = process weight in tons per hour

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

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

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

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

c. Particulate matter emissions from this source shall be controlled by the dust collector. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
   i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
   ii. an annual (for each 12-month period following the initial inspection) internal inspection of the dust collector structural integrity.

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

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 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 on any control device; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.

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

e. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
f. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section(s) 2.1 C.1.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.

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

a. Visible emissions from this source 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 [15A NCAC 02Q .0308(a)(1)]

c. To ensure compliance, once a week the Permittee shall observe the emission points of this source 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. The Permittee shall establish "normal" for this source in the first 30 days of beginning operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a above.

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

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.

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 C.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide emission sources

State-enforceable only

1. 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS

a. Pursuant to 15A NCAC 02D .1100, the emission limits in Table 2.2 A.1 below shall not be exceeded.
b. The Permittee has submitted a toxic air pollutant dispersion modeling analyses dated November 29, 2022, for the facility's toxic air pollutant emissions as listed in the Table 2.2 A.1 below. The modeling analysis was reviewed and approved by the Air Quality Analysis Branch (AQAB) on March 7, 2023. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analyses and should reflect any changes from the original analyses submittal as outlined in the AQAB review memo.

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

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

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

d. The Permittee shall record, retain on site (in written or electronic format) and make available to an authorized representative upon request records sufficient to show that the permitted emission rates in Table 2.2 A.1 are not exceeded.

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

e. The Permittee shall submit a summary report, acceptable to the Regional Air Quality Supervisor, of the monitoring and recordkeeping activities given in Section 2.2 A.1.d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.

Table 2.2 A.1

Emission Point ID No.*	Emission Source ID No.	Emission Source Description	Formaldehyde Emission Limitation (pounds per hour)
VB	ES-FPL	Fiberglass mat production line emissions from vacuum blowers	1.80
MLFUG	ES-FPL	Fiberglass mat production line fugitive emissions	0.88
EPRTO	ES-MDC	Natural gas-fired mat curing and drying oven	3.36
CD-DC1	ES-MFA	Mat finishing area	1.65E-02
RLTANK	I-RT-1 through I-RT-3, I-LT-1, and I-LT-2	Resin and latex tanks	4.46E-04
BLEND	I-BSTT, I-BSET, I-BWT, I-BMT	Blending tanks	1.79E-03
MAU101 through MAU801	I-MAU-101 through I-MAU-801	Ten natural gas-fired makeup air units (0.20 million Btu per hour heat input, each)	1.45E-04
FCU101 through FCU501	I-FCU-101 and I-FCU-501	Two natural gas-fired fan coil units (0.01 million Btu per hour heat input, each)	8.78E-07
AHU601	I-AHU-601	Natural gas-fired air handling unit (0.42 million Btu per hour heat input)	3.05E-05
RTU201	I-RTU-201	Natural gas-fired rooftop unit (0.08 million Btu per hour heat input)	4.44E-05
UH101 through UH802	I-UH-101 through I UH-802	Thirty-four natural gas-fired unit heaters (0.15 million Btu per hour heat input, each)	3.77E-04

* ID Nos. identified in dispersion model

State-enforceable only

2. 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.

State-enforceable only

3. 15A NCAC 02Q .0711: EMISSION RATES REQUIRING A PERMIT

a. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any Toxic Air Pollutant (TAP) listed in 15A NCAC 02Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 02Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TAP permitting emission rates (TPER) listed in 15A NCAC 02Q .0711 without first obtaining an air permit to construct or operate.

b. PRIOR to exceeding any of the TPERs listed in 15A NCAC 02Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements found in 15A NCAC 02D .1100 "Control of Toxic Air Pollutants."

c. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 02Q .0711.

d. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 02Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Toxic Air Pollutant	CAS No.	Carcinogens (pounds/year)	Chronic Toxicants (pounds/day)	Acute Systemic Toxicants (pounds/hour)	Acute Irritants (pounds/hour)
Acetaldehyde	75070				6.8
Acrolein	107028				0.02
Ammonia	7664-41-7				0.68
Arsenic unlisted compounds	ASC-Other	0.053			
Benzene	71432	8.1			
Benzo(a)pyrene	50328	2.2			
Beryllium metal (unreacted)	7440417	0.28			
1,3-Butadiene	106990	11			
Cadmium metal (elemental unreacted)	7440439	0.37			
Soluble chromate compounds, as chromium (VI) equivalent	SOLCR6		0.013		
n-Hexane	110-54-3		23		
Manganese unlisted compounds	MNC-Other		0.63		
Mercury vapor	7439976		0.013		
Nickel metal	7440020		0.13		
Toluene	108883		98		14.4
Xylene	1330207		57		16.4

4. NOTIFICATION REQUIREMENT

As required by 15A NCAC 2D .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.

5. FUGITIVE DUST CONTROL REQUIREMENT

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 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 2D .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).

6. 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.

7. 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 .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.

8. 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. 3900120.22A, 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]
I-FP1 **NSPS IIII, MACT ZZZZ**	Diesel-fired emergency fire pump (200 horsepower output)
I-P-1, I-P-2	Two pulpers containing fibers, white-water and dispersant mixture (35,663 gallon each)
I-DC	Dump chest containing fibers, white-water and defoamer mixture (52,834 gallon capacity)
I-MC	Machine chest containing fibers, white-water and defoamer mixture (42,268 gallon capacity)
I-CLC	Constant level chest containing fibers, white-water and defoamer mixture (42,268 gallon capacity)
I-WWT-1	White water tank no. 1 containing fiber and white-water mixture (150,578 gallon capacity)
I-PWWT	Process water working tower containing white-water, viscosity modifier and biocide mixture (144,766 gallon capacity)
I-PWST-1, I -PWST-2	Two process water storage tanks no.1 & no.2 for white-water storage (90,611 gallon capacity each)
I-WWT-2, I-WWT-3	Two white-water tanks no. 2 and no.3 containing fibers, white-water, and caustic mixture (19, 813 gallon capacity each)
I-CWT	Clarified water tank for white-water (15,850 gallon capacity)
I-BPC	Broke pit chest containing fibers, white-water, viscosity modifier, and defoamer mixture (42,268 gallon capacity)
I-RT-1, I-RT-2, I-RT-3	Three resin tanks (15,486 gallon capacity each)
I-LT-1, I-LT-2	Two latex tanks (8,876 gallon capacity each)
I-BSTT	Binder storage tank (1,678 gallon capacity)
I-BSET	Binder seal tank (660 gallon capacity)
I-BWT	Binder working tank (1,100 gallon capacity)
I-BMT	Binder mixing tank (798 gallon capacity)
I-TB	Trim baler (1,500 feet per minute process rate)
I-MAU-101 through I-MAU-801	Ten natural gas-fired makeup air units (0.20 million Btu per hour heat input each)
I-FCU-101 and I-FCU-501	Two natural gas-fired fan coil units (0.01 million Btu per hour heat input each)
I-AHU-601	Natural gas-fired air handling unit (0.42 million Btu per hour heat input)
I-RTU-201	Natural gas-fired rooftop unit (0.08 million Btu per hour heat input)
I-UH-101 through I UH-802	Thirty-four natural gas-fired unit heaters (0.15 million Btu per hour heat input each)

[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, 2023.

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Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission
Air Permit No. 10773R00