ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

TBD

Mr. Ric Aikman
General Manager
Unilin Flooring, N.V.
149 Homanit USA Road
Mount Gilead, NC 27306

SUBJECT: Air Quality Permit No. 08803T24
Facility ID: 6200061
Unilin Flooring, N.V.
Mount Guild
Montgomery County
Fee Class: Title V
PSD Class: Major

Dear Mr. Aikman:

In accordance with your completed Air Quality Permit Application for a renewal/Part II with 501(b)(2) significant modification received September 27, 2019 and a minor modification received May 1, 2020, we are forwarding herewith Air Quality Permit No. 08803T24 to Unilin Flooring, N.V. 149 Homanit USA Road, Mount Gilead, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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

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

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

Montgomery County has triggered increment tracking under PSD for PM10 and NOx. This permit renewal with modification will result in an increase in 0.011 pounds per hour of PM10.

This Air Quality Permit shall be effective from XXXX, 2021 until XXXX, 2026, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Urva Patel at (919) 707-8405 and Urva.Patel@ncdenr.gov .

Sincerely yours,

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

Enclosure

c: Michael Sparks, EPA Region 4 (Permit and review)
Fayetteville Regional Office
Central Files
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 08803T24

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

Emission Source ID No.	Emission Source Description
I-F1	Raw material unloading operations
I-F2	Covered shavings building
I-F3	Roundlog chips handling/storage operations
I-F4	Sawmill chip handling/storage
I-F5	Fuel chips handling/storage
I-F6	Overflow chip handling
I-F7	Chip handling infeed to process
I-F35	Sanderdust truck loading
I-PW1, PW2, and PW3	Three parts washers
IES-PUMP **MACT ZZZZ**	One diesel fuel-fired 265 horsepower fire pump
I-Tank	Two 30,000 gallon capacity propane storage tanks
I-VAP	One 1.52 million Btu per hour propane vaporizer

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement 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.”
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled “Specific Permit Conditions Regulatory Guide.” The link to this site is as follows: http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide.

Summary of Changes to Permit

The following changes were made to the Unilin Flooring, N.V. – Mount Gilead, Air Permit No. 08803T23:

Page No.	Section	Description of Changes
Cover Letter	N/A	• Updated cover letter with application number, permit numbers, dates, fee class, PSD increment statement, and Director name.
Permit Cover	N/A	• Inserted new issuance and complete application date, application number, facility information.
4, 6, 9, 19	Section 1, Table 2.1 A 2.1 B 2.2 A	• Removed asterisk (*) from Biofilter (**ID No. CD-BIO**)
3 12-14	Section 1, Table 2.1 C	• Installation of Mat Steam Injection System (**ID No. ES-MSI**) controlled with a cyclone (**ID No. CD-CYMSI**) and a fabric filter (**ID No. CD-FFMSI**)
15	2.1 E.3	• Revised MACT ZZZZ permit condition to current language. • Removal of ID No. IES-PUMP as its insignificant activity.
5, 15, 31	Section 1, Table Section 2.1 G Section 2.3 B	• Removal of one rotographic surface coating line (**ID No. ES-50**) and associated permit condition (40 CFR 63, Subpart QQQQ) • Renumbered remaining permit conditions for consistency.
20	2.2 B.1	• Revised MACT DDDD permit condition language.
22 26	2.2 B.1.m 2.2 B.2.m	• Removal of "pounds per oven dry tons" as it was not a MACT requirement.
25	2.2 B.2.k	• Addition of biofilter (**ID No. CD-BIO**) operating parameters (biofilter bed temperature range)
22, 23, 23, 25, 27, 27	2.2 B.1.j 2.2 B.1.o.ii 2.2 B.1.u.iv 2.2 B.2.i 2.2 B.2.t.ii 2.2 B.2.aa.iv	• Revised SSMP language in the permit conditions as per 40 CFR 63, Subpart DDDD
19, 29	2.2 A.2 2.2 C	• Revised CAM format based on SSCB (Mr. Samir Parekh) comments
32	Section 3	• Updated General Conditions from version 5.3 to current shell version 5.5

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

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
08803T24	08803T23	XXXX, 2021	XXXX, 2026

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee:	**Unilin Flooring, N.V.**
Facility ID:	**6200061**
Facility Site Location:	**149 Homanit USA Road**
City, County, State, Zip:	**Mount Gilead, Montgomery County, North Carolina 27306**
Mailing Address:	**149 Homanit USA Road**
City, State, Zip:	**Mount Gilead, North Carolina 27306**
Application Number:	**6200061.19B and 6200061.20C**
Complete Application Date:	**September 27, 2019 and May 1, 2020**
Primary SIC Code:	**2493**
Division of Air Quality, Regional Office Address:	**Fayetteville Regional Office Systel Building 225 Green Street, Suite 714 Fayetteville, NC 28301-5043**

Permit issued this the XXth day of XXX, 2021

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

Table of Contents

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:

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
6-9, 19-30	ES-HP **PSD, CAM, MACT DDDD**	One Heating Plant consisting of: -One wood-fired boiler (131 million Btu per hour maximum heat input capacity; **No. -1**); -One sanderdust duct burner system (52 million Btu per hour maximum heat input capacity; **No. -2**); -Two No. 2 fuel oil-fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; **Nos. -3 and -4**); -One No. 2 fuel oil-fired auxiliary burner (75 million Btu per hour maximum heat input capacity; **No. -5**) -Two natural gas-fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; **Nos. -6 and -7**); -One natural gas-fired auxiliary burner (75 million Btu per hour maximum heat input capacity; **No. -8**) -Two propane-fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; **Nos. -9 and -10**); -One propane-fired auxiliary burner (75 million Btu per hour maximum heat input capacity; **No. -11**)	CD-01 CD-SCRB CD-BIO	One multicyclone (304, 9-inch diameter tubes), One aqueous-assisted fiber removal chamber (270 gallons per minute minimum injection rate) Biofilter
9-12, 19-25	ES-DRY **PSD, CAM, MACT DDDD**	One blowline flash-tube dryer	CD-SCRB	One aqueous-assisted fiber removal chamber (270 gallons per minute minimum

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
	ES-BP **PSD, CAM, MACT DDDD**	One hot oil heated continuous board press	CD-BIO	injection rate) Biofilter
	ES-RFN **PSD, CAM, MACT DDDD**	One pressurized refiner		
15	ES-F-08	Board breaker and conveyor (fugitive emission source)	NA	NA
15	ES-F-09	Board breaker and conveyor (14 tons per hour throughput capacity) (fugitive emission source)	NA	NA
15, 20	ES-F-BC **MACT DDDD**	Board cooling and stacking area (fugitive emission source)	NA	NA
12, 20, 29	ES-21 **MACT DDDD, CAM**	One dried fiber grader system No. 1	CD-CY21 CD-FF21	One simple cyclone (140 inches in diameter) One bagfilter (3,702 square feet of filter area)
12, 20, 29	ES-22 **MACT DDDD, CAM**	One dried fiber grader system No. 2	CD-CY22 CD-FF22	One simple cyclone (140 inches in diameter) One bagfilter (3,702 square feet of filter area)
12, 20, 29	ES-23 **MACT DDDD, CAM**	One mat trimming return air system	CD-CY23a CD-CY23b, CD-FF23	One simple cyclone (124 in diameter) One simple cyclone (157 inches in diameter) One bagfilter (15,069 square feet of filter area)
16, 29	ES-FHS **MACT DDDD, CAM**	Pneumatic chip handling infeed system	CD-CYFHS CD-FF23	One high efficiency cyclone (78 inches in diameter) One bagfilter (15,069 square feet of filter area)
12, 20, 29	ES-31 **MACT DDDD, CAM**	One fine sanderdust pneumatic conveyor system	CD-FF31	One bagfilter (6,150 square feet of filter area)
12, 20, 29	ES-32 **MACT DDDD, CAM**	One coarse sanderdust pneumatic conveyor system	CD-FF32	One bagfilter (8,680 square feet of filter area)
12, 20, 29	ES-33 **MACT DDDD, CAM**	One sawing and cutting pneumatic conveyor system	CD-FF33	One bagfilter (4,650 square feet of filter area)

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
12, 20, 29	ES-34 **MACT DDDD, CAM**	One press trim saw and dust collection system	CD-CY34 CD-FF34	One simple cyclone (98 inches in diameter) One bagfilter (3,020 square feet of filter area)
14, 20	ES-40a, ES-40b, ES-40c, ES-40d, ES-40e **MACT DDDD**	Five fixed roof resin storage tanks (30,000, 30,000, 30,000, 30,000, and 25,000 gallon capacity, respectively)	NA	NA
14, 20	ES-40f **MACT DDDD**	One fixed roof wax storage tank (25,000 gallon capacity)	NA	NA
14, 20	ES-41 **MACT ZZZZ**	One No. 2 fuel oil-fired 755 horsepower emergency generator	NA	NA
17, 20	ES-EVAP **MACT DDDD**	One natural gas/propane-fired evaporator (750 gallons per hour maximum process rate, 7.55 million Btu per hour maximum heat input rate)	NA	NA
17, 20	ES-EVAP-2 **MACT DDDD**	One natural gas/propane-fired evaporator (1,000 gallons per hour maximum process rate, 13 million Btu per hour maximum heat input rate)	NA	NA
12-14	ES-MSI	Mat Steam Injection System	CD-CYMSI CD-FFMSI	One rectangle Cyclone (31" high and 15" wide) One Fabric Filter (1,354 square feet of filter area)

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 heating plant (ID No. ES-HP) consisting of:

- **one wood-fired boiler (ID No. ES-HP-1);**
- **one sanderdust duct burner system (ID No. ES-HP-2);**
- **two No. 2 fuel oil-fired auxiliary burners (ID Nos. ES-HP-3 and ES-HP-4);**
- **one No. 2 fuel oil-fired auxiliary burner (ID No. ES-HP-5),**
- **two natural gas fired auxiliary burners (ID Nos. ES-HP-6 and ES-HP-7);**
- **one natural gas fired auxiliary burner (ID No. ES-HP-8);**
- **two propane fired auxiliary burners (ID Nos. ES-HP-9 and ES-HP-10);**
- **one propane fired auxiliary burner (ID No. ES-HP-11)**

with associated multicyclone (ID No. CD-01), aqueous-assisted fiber removal chamber (ID No. CD-SCRB) and Biofilter (ID No. CD-BIO), in series.

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$\frac{[(0.37)(Qw) + (0.29)(Qo)]}{(Qw + Qo)}$ pounds per million Btu Where Qw = actual wood heat input rate in Btu/hr Qo = actual No. 2 fuel oil, natural gas, and propane heat input rate in Btu/hr	15A NCAC 02D .0504
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20% opacity	15A NCAC 02D .0521
Multiple Pollutants	Recordkeeping and reporting of actual emissions	15A NCAC 02D .0530(u)
Volatile Organic Compounds	BACT Limitation 7.49 pounds per ODT **See Section 2.2 A.1**	15A NCAC 02D .0530
PM-10	**See Section 2.2 A.2**	15A NCAC 02D .0614
Hazardous air pollutants	**See Section 2.2 B.1 and B.2** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
N/A	**See Section 2.3** Permit Shield condition (**ID No. CD-BIO** only)	15A NCAC 02Q .0512

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

a. Emissions of particulate matter from the combustion of a combination of wood, No. 2 fuel oil, natural gas or propane that are discharged from this source **(ID No. ES-HP)** into the atmosphere shall not exceed an allowable emission rate as calculated by the following equation:

$$E = \frac{(0.37)(Q_w) + (0.29)(Q_o)}{(Q_w + Q_o)}$$

Where:

E	=	emission limit, in pounds per million Btu,
0.37	=	Allowable Emissions for wood, pounds per million Btu
0.29	=	Allowable Emissions for No. 2 fuel oil, pounds per million Btu
Qw	=	actual wood heat input rate in Btu per hour,
Qo	=	actual No. 2 fuel oil, natural gas, and propane heat input rate in Btu per hour [≤ 157 million Btu per hour]

Qw + Qo ≤ 183 million Btu per hour

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

b. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by conducting emission testing on the emission sources in 2.1.A in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. The testing shall be conducted biennially (within 24 months of the previous test date). The Permittee shall submit a written report of the test(s) results to the Regional Supervisor, DAQ within 60 days of completion of the test. If the results of two consecutive compliance tests are less than 80% of the above standard, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard, then biennial testing shall resume. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.

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

c. Particulate matter emissions from this source **(ID No. ES-HP)** shall be controlled by one multicyclone **(ID No. CD-01)**, one aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)**, and Biofilter (**ID No. CD-BIO**). 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 daily check on the pressure drop across the aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)**;
   ii. a daily check of the minimum flow to the aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)**;
   iii. a monthly visual inspection of the system ductwork and including the multicyclone **(ID No. CD-01)** and aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)** for leaks; and
   iv. an annual (for each 12-month period following the initial inspection) internal inspection of the aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)** for structural integrity.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the ductwork and control devices are not inspected and maintained or the monitored parameters are not maintained within the prescribed ranges [same as in MACT DDDD Section 2.2 B.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.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.
e. During periods of routine control device maintenance downtime as described in application No. 6200061.10C, particulate matter emissions from this source **(ID No. ES-HP)** shall be controlled by one multicyclone **(ID No. CD-01).**

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

f. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked given in Section 2.1 A.1.c through e above postmarked on or before January 30 of each calendar year for the preceding six-month

period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

a. Emissions of sulfur dioxide from this source **(ID No. ES-HP)** shall not exceed 2.3 pounds per million Btu heat input while firing wood fuel, natural gas, or No. 2 fuel oil. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of wood fuel, No. 2 fuel oil, natural gas or propane in this source **(ID No. ES-HP)**.

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

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

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

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

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

c. To ensure compliance, once a day the Permittee shall observe the emission points of this source **(ID No. ES-HP)** for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source is 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.3.a above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained**.**

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

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

4. 15A NCAC 02D .0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMEN

a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements for the project to install a new biofilter **(ID No. CD-BIO)** and use of UF resins as specified in Application No. 6200061.19A. In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the record keeping and reporting requirements in Sections 2.1 A.4.c and d below.

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

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

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

c. The Permittee shall maintain records of actual emissions for the pollutants in Table 2.1 A.4.1 in tons per year on a calendar year basis for five years following the resumption of regular operations after the maintenance on the new Biofilter **(ID No. CD-BIO)** and use of UF resins as fully described in Application No. 6200061.19A. The Permittee shall make the information, documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

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

d. The Permittee shall submit a report of the emissions of the pollutants in Table 2.1 A.4.1 to the Director within 60 days after the end of each calendar year during which the records in Section 2.1 A.4.c above must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c). The reported actual emissions for each of the five calendar years for the following pollutants will be compared to the respective projected actual emissions as included below:

Table 2.1 A.4.1

Pollutant	Projected Actual Emissions* (tpy)
CO	151.10
NO_x	168.19
PM	135.80
PM-10	135.71
PM-2.5	135.64
SO_2	35.20
VOC	792.68

* The projected actual emissions are not enforceable limitations. If the reported actual emissions exceed the projected actual emissions, the Permittee shall include in its annual report an explanation as to why actual emissions exceeded the projected actual emissions.

B.

- **One blowline flash-tube dryer (ID No. ES-DRY);**
- **One hot oil heated continuous board press (ID No. ES-BP);**
- **One pressurized refiner (ID No. ES-RFN);**

all controlled by one aqueous-assisted fiber removal chamber (ID No. CD-SCRB) and Biofilter (ID No. CD-BIO), in series

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
n/a	**(ES-RFN only)** Start-up Restrictions	15A NCAC 02D .0501

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	*For P ≤ 30,* E = 4.10 x $P^{0.67}$ *For P > 30,* E = 55.0$(P)^{0.11}$- 40 Where: E = allowable emission rate in pounds per hour; and P = process weight in tons per hour	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile Organic Compounds	BACT Limitation 7.49 lb/ODT **See Section 2.2 A.1**	15A NCAC 02D .0530
PM-10	**See Section 2.2 A.2**	15A NCAC 02D .0614
Hazardous air pollutants	**See Section 2.2 B** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
N/A	**See Section 2.3** Permit Shield condition (**ID No. CD-BIO** only)	15A NCAC 02Q .0512

1. 15A NCAC 02D .0501: COMPLIANCE WITH EMISSION CONTROL STANDARDS

The Permittee shall comply with the following refiner start-up operational restrictions:

a. Start-up while charging the refiner **(ID No. ES-RFN)** [bypassing the flashtube dryer **(ID No. ES-DRY)** control device] while venting to the start-up cyclone shall not exceed one hour per 24-hour period; and

b. For all start-ups, the Permittee shall record the date, time and duration that the refiner **(ID No. ES-RFN)** operated in the start-up bypass mode. These records shall be maintained by the Permittee for a minimum of five years and made available to the Division upon request.

2. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources **(ID Nos. ES-DRY, ES-BP, and ES-RFN)** shall not exceed an allowable emission rate as calculated by the following equations:

For P ≤ 30, E = 4.10 x $P^{0.67}$
For P > 30, E = 55.0$(P)^{0.11}$- 40

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

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

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

b. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by conducting emission testing on the emission sources in 2.1.B in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. The testing shall be conducted biennially (within 24 months of the previous test date). The Permittee shall submit a written report of the test(s) results to the Regional Supervisor, DAQ within 60 days of completion of the test. If the results of two consecutive compliance tests are less than 80% of the above standard, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard, then biennial testing shall resume. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

c. Particulate matter emissions from these sources **(ID Nos. ES-DRY, ES-BP, and ES-RFN)** shall be controlled by one aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)** and Biofilter (**ID No. CD-BIO**) except as allowed per Section 2.1 B.2.e below. 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 comply with the monitoring Section 2.1 A.1.c above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork and control devices are not inspected and maintained.

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.

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

e. During periods of routine control device maintenance downtime as described in application no. 6200061.10C, particulate matter emissions from these sources **(ID Nos. ES-DRY, ES-BP, and ES-RFN)** are permitted to be emitted out of the bypass stack **EP11** without control by the aqueous-assisted fiber removal chamber **(ID No.CD-SCRB)** and Biofilter (**ID No. CD-BIO**) in series**.**

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

f. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.

g. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 B.2.c through f above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

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

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

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

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

Normal Operating Scenario

c. The Permittee shall comply with the monitoring in Section 2.1 A.3 above.

Bypass Operating Scenario

d. Once a day during bypass operation of the Biofilter (**ID No. CD-BIO**), as allowed within the routine control device maintenance exemption within 40 CFR 63.2551 and Section 2.2 B.2.e. and f. of this permit, the Permittee shall observe the emission points of these sources **(ID Nos. ES-DRY, ES-BP, and ES-RFN**), which are not being controlled by the aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)** and Biofilter (**ID No. CD-BIO**), at the stack (**EP-Bio**) for any visible emissions above normal. The daily observation must be made for each day of bypass operation of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source is 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.3.a above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

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

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

C.

- **One dried fiber grader system No. 1 (ID No. ES-21) controlled by one simple cyclone (ID No. CD-CY21) in series with one bagfilter (ID No. CD-FF21);**
- **One dried fiber grader system No. 2 (ID No. ES-22) controlled by one simple cyclone (ID No. CD-CY22) in series with one bagfilter (ID No. CD-FF22);**
- **One mat trimmings return air system (ID No. ES-23) controlled by two parallel simple cyclones (ID Nos. CD-CY23A and CD-CY23B) in series with one bagfilter (ID No. CD-FF23);**
- **One fine sanderdust pneumatic conveyor system (ID No. ES-31) controlled by one bagfilter (ID No. CD-FF31);**
- **One coarse sanderdust pneumatic conveyor system (ID No. ES-32) controlled by one bagfilter (ID No. CD-FF32);**
- **One sawing and cutting pneumatic conveyor system (ID No. ES-33) controlled by one bagfilter (ID No. CD-FF33);**
- **One press trim saw and dust collection system (ID No. ES-34) controlled by one simple cyclone (ID No. CD-CY34) in series with one bagfilter (ID No. CD-FF34)**
- **Mat Steam Injection System (ID No. ES-MSI) controlled by one cyclone (ID No. CD-CYMSI) and one Fabric Filter (ID No. CD-FFMSI)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	**See Section 2.2 B** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
Particulate matter	Comply with CAM plan **See Section 2.2 C.1**	15A NCAC 02D .0614

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

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

b. Particulate matter emissions from the wood material collection systems **(ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, and ES-MSI)** shall be controlled by six cyclones **(ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, CD-CY34, and CD-CYMSI)** and eight bagfilters **(ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34, and CD-FFMSI)** as listed above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
   i. monthly external inspection of the ductwork, cyclones **(ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, CD-CY34, and CD-CYMSI)**, and bagfilters **(ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34, and CD-FFMSI)** noting the structural integrity; and
   ii. annual (for each 12-month period following the initial inspection) internal inspection of the bagfilters **(ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34, and CD-FFMSI)** noting the structural integrity and the condition of the filters.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and bagfilters are not inspected and maintained.

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

c. 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 maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

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

d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.

e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 C.1.b and c above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

a. Visible emissions from these sources **(ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, and ES-MSI)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. To ensure compliance, once a month the Permittee shall observe the emission points of these sources **(ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, and ES-MSI)** for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. If visible emissions from these sources **(ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, and ES-MSI)** 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.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

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

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

D.

- **Five fixed roof resin storage tanks (ID Nos. ES-40a through ES-40e)**
- **One fixed roof wax storage tank (ID No. ES-40f)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	**See Section 2.2 B.1** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

E. One No. 2 fuel oil-fired 755 horsepower emergency generator (ID No. ES-41)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	MACT Standards	15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)

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

a. Emissions of sulfur dioxide from this source **(ID No. ES-41)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil for this source **(ID No. ES-41)**.

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

a. Visible emissions from this source **(ID No. ES-41)** shall not be more than 20 percent opacity when averaged over a

six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in this source **(ID No. ES-41)**.

3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63 Subpart ZZZZ)

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

a. For this emission source (**ID No. ES-41**) (existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to limited requirements [40 CFR 63.6590(b)]

b. Pursuant to 40 CFR 63.6590(b)(3)(iii), these sources do not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements.

F.

- **Two fugitive board breaking and conveyor systems (ID No. ES-F-08 and ES-F-09)**
- **One fugitive board cooling and stacking area (ID No. ES-F-BC)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	**(ES-F-BC only)** **See Section 2.2 B.1** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources **(ID Nos. ES-F-08, ES-F-BC and ES-F-09)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. No monitoring/recordkeeping/reporting is required for visible emissions from these sources **(ID Nos. ES-F-08, ES-F-BC and ES-F-09)**.

G. Pneumatic chip handling infeed system (ID No. ES-FHS) controlled by one high efficiency cyclone (ID No. CD-CYFHS) installed in series with one bagfilter (ID No. CD-FF23)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Particulate matter	**See Section 2.2 C.1** Comply with CAM plan	15A NCAC 02D .0614

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

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

b. Particulate matter emissions from the pneumatic chip handling infeed system **(ID No. ES-FHS)** shall be controlled by one cyclone **(ID No. CD-CYFHS)** and one bagfilter **(ID No. CD-FF-23)**. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
   i. monthly external inspection of the ductwork, cyclones, and/or bagfilters noting the structural integrity; and
   ii. annual (for each 12-month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and/or bagfilters and are not inspected and maintained.

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

c. 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; and
   iii. the results of maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained**.**

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

d. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.

e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 G.1.b and c above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

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

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 G.2.a above, the Permittee shall be deemed in noncompliance with

15A NCAC 02D .0521.

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

c. To ensure compliance, once a month the Permittee shall observe the emission points of this source (**ID No. ES-FHS**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source is 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.G.2.a. above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained**.**

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 G.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

H. Two natural gas-fired evaporators (ID Nos. ES-EVAP and ES-EVAP2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	*For P ≤ 30*, $E = 4.10 \times P^{0.67}$ *For P > 30*, $E = 55.0(P)^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour; and 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
Hazardous air pollutants	**See Section 2.2 B.1** National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

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

a. Emissions of particulate matter from these sources **(ID Nos. ES-EVAP and ES-EVAP2)** 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 .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

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. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

d. No reporting is required for particulate emissions from these sources (**ID Nos. ES-EVAP and ES-EVAP2**).

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

a. Emissions of sulfur dioxide from these sources **(ID Nos. ES-EVAP and ES-EVAP2)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from the firing of natural gas in these sources **(ID Nos. ES-EVAP and ES-EVAP2)**.

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

a. Visible emissions from these sources **(ID Nos. ES-EVAP and ES-EVAP2)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. No monitoring, recordkeeping or reporting is required for visible emissions from the firing of natural gas in these sources **(ID Nos. ES-EVAP and ES-EVAP2)**.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. One heating plant (ID No. ES-HP) with associated multicyclone (ID No. CD-01), aqueous-assisted fiber removal chamber (ID No.CD-SCRB), and biofilter (ID No. CD-BIO)
The following sources, all controlled by one aqueous-assisted fiber removal chamber (ID No.CD-SCRB):
One blowline flash-tube dryer (ID No. ES-DRY);
One hot oil heated continuous board press (ID No. ES-BP); and
One pressurized refiner (ID No. ES-RFN)

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

a. For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded for the Heating Plant **(ID No. ES-HP),** blowline flash-tube dryer **(ID No. ES-DRY),** hot oil heated continuous board press **(ID No. ES-BP**) and pressurized refiner **(ID No. ES-RFN):**

Emission Source	Pollutant	Emission Limits	Control Technology
Heating Plant **(ID No. ES-HP)** Blowline flash-tube dryer **(ID No. ES-DRY)** Hot oil heated continuous board press **(ID No. ES-BP)** Pressurized refiner **(ID No. ES-RFN)**	Volatile Organic Compounds	Total VOC emissions shall not exceed 7.49 pounds/ODT	One aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)**

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

b. If testing is required for emissions of volatile organic compounds, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. No monitoring, recordkeeping or reporting is required for volatile organic compound emissions from this source.

2. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

a. Per 40 CFR 64 and 15A NCAC 02D .0614, the Permittee shall comply with the following.

b. **Background**:
i. Emission Units:
1) Heating Plant (**ID No. ES-HP**)
2) Blowline flash-tube dryer (**ID No. ES-DRY**)
3) Hot oil heated continuous board press (**ID No. ES-BP**)
4) Pressurized refiner (**ID No. ES-RFN**)

ii. Applicable Regulation: 15A NCAC 02D .0504, and 15A NCAC 02D .0515

iii. Emission Limits: Particulate Matter
1) $\frac{[(0.37)(Qw) + (0.29)(Qo)]}{(Qw + Qo)}$ pounds per million Btu
Where Qw = actual wood heat input rate in Btu/hr
Qo = actual No. 2 fuel oil, natural gas, and propane heat input rate in Btu/hr
2) For $P \leq 30$, $E = 4.10 \times P^{0.67}$
For $P > 30$, $E = 55.0(P)^{0.11} - 40$
Where: E = allowable emission rate in pounds per hour; and
P = process weight in tons per hour

iv. Control Technology: An aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**)

c. **Monitoring**
The Permittee shall maintain the total flow rate for the control device **CD-SCRB** at or above 270.0 gallons per minute on a 3-hour block average. An exceedance is defined as a 3-hour block average total flow rate less than 270.0 gallons per minute.

The Permittee shall install, operate, and maintain a flowmeter that measures the total scrubber flow rate.
i. The Permittee shall perform routine calibration, inspections and maintenance as recommended by the flowmeter's manufacturer.
ii. The Permittee shall continuously monitor and record the data generated by the flowmeter.

When an exceedance occurs, the Permittee shall be deemed in noncompliance with the applicable emission limits specified in 2.2.A.2.b.iii above of the applicable regulation 15A NCAC 02D .0504, 15A NCAC 02D .0515.

d. **Recordkeeping and Reporting** [15A NCAC 02Q .0508(f)][40 CFR 64.9]
The permittee shall comply with the recordkeeping requirements of 40 CFR 64.9 (b) and submit the reports that shall include, at a minimum, the following information, as applicable:
i. Summary information on the number, duration and cause (including unknown cause, if applicable) of exceedances, as applicable, and the corrective actions taken;
ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

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

B. Facility-Wide Sources Subject to 40 CFR Part 63, Subpart DDDD

1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart DDDD – Compliance through use of scrubber)

The Permittee shall comply with this permit condition when utilizing methyl-diphenyl diisocyanate [MDI] resins. To ensure the emissions from the Press, Heating Plant, Refiner and Dryer, the Permittee shall meet the compliance options and operating requirements in Table 1B, Row 5 (reduce overall formaldehyde by 90%).

Source	Pollutant	Regulation	Potential Pre-Control Emissions*	Emissions Limit	Control Device
Heating Plant **(ES-HP),** Press **(ES-BP),** Dryer **(ES-DRY),** Refiner **(ES-RFN)**	formaldehyde	40 CFR Part 63, Subpart DDDD	63.0 pounds per hour	90% reduction	One aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)**

*as established by performance test on **August 28, 2008**

Applicability [40 CFR 63.2231]
a. For the emission sources subject to "MACT Subpart DDDD" as indicated in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDD National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

Definitions and Nomenclature [40 CFR 63.2292]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.2292 shall apply.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.2290]

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

Emission Limitations and Operating Requirements [15A NCAC 02Q.0508]

d. The Permittee shall determine compliance with Table 1B compliance option 5 (90% reduction in formaldehyde emissions) through the use of Equation 1 of 40 CFR 63.2262(h):

$$PR = CE \times \frac{ER_{in} - ER_{out}}{ER_{in}}(100)$$

Where:

PR = percent reduction (%)
CE = capture efficiency (%) (assumed to be 100% Press, Heating Plant, Refiner and Dryer according to 40 CFR 63, Subpart DDDD Table 4)
ERin = emission rate of formaldehyde in the inlet vent stream of the control device as established by performance test on **August 28, 2008** (63.0 lb/hr)
ERout = emission rate of formaldehyde in the outlet vent stream of the control device (lb/hr) (calculated using the performance test results from testing the outlet of the scrubber CD-SCRB and operating at 90% of the full production rate).

Aqueous-assisted Fiber Removal Chamber Site-Specific Operating Parameters

e. The Permittee shall maintain the following operating parameters within the ranges established during the performance test(s) required by 2.2 B.1.m below. Based on the most recent test, performed **July 24, 2014**, the parameters are:

i. Monitoring:
Scrubber Flow (total of the following with a minimum of 270 GPM):
A. Quench water nozzle water flow (GPM);
B. Contact chamber nozzle water flow (GPM); and
C. Wash ring flow (GPM)

ii. Scrubber Pressure (each with a minimum pressure in PSI):
A. Quench water nozzle atomizing air pressure (minimum of 55.0 PSI); and
B. Contact chamber nozzle atomizing air pressure (minimum of 48.3 PSI)

iii. Scrubber pH (pH range of 3.5 to 9.0):

iv. Routine maintenance:
A. Inspect and clean the mist eliminators – once quarterly
B. Inspect and clean the nozzles– once quarterly
C. The flow, pressure and pH monitoring devices shall be operated maintained and calibrated in accordance with manufacturer's written instructions

[Table 2, Row 4, 40 CFR Part 63 Subpart DDDD]

v. The site specific operating parameter ranges in i through iii above must be confirmed or reestablished during performance tests.
(A) If performance testing indicates that compliance with the emission limits is demonstrated with revisions to the operating limits that are more stringent than the established minimum or maximum operating limits in **i through iii above,** the Permittee shall submit a request to revise the values in the permit at the same time as the test report is submitted. The permit revision will be processed pursuant to 15A NCAC 02Q .0514.
(B) If performance testing indicates that compliance with the emission limits is demonstrated with revisions to the operating limits that are less stringent than the established minimum or maximum operating limits in **i through iii above** the Permittee may request to revise the values in the permit pursuant to 15A NCAC 02Q

.0515.

f. The emission limitations in Section 2.2 B.1.d above do not apply during times when control device maintenance covered under the approved routine control device maintenance exemption (per application **6200061.07B**) is performed. The Permittee must minimize emissions to the greatest extent possible during these routine control device maintenance periods. [40 CFR 63.2251]
g. Operation of the process units controlled as described in Section 2.2 B.1.d above during periods of routine control device maintenance as requested in application no. **6200061.07B** must not exceed 3 percent of annual operating uptime for each process unit controlled. [40 CFR 63.2251]
h. The Permittee shall operate the board press **(ID No. ES-BP)** in an enclosure that meets the definition of a wood products enclosure in 40CFR 63.2292.
i. The Permittee must always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(l)(i). [40 CFR 63.2250(b)]
j. The Permittee must develop a written Startup, Shutdown, and Malfunction Plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). This condition is no longer an applicable requirement beginning on August 13, 2021. [40 CFR 63.2250(c)]
k. To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down. [40 CFR 63.2251(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D.1111 if the operating requirements in Section 2.2 B.1.e though k above are not met.

Affected Sources Not Subject to Operating Requirements [40 CFR 63.2252]

l. For process units not subject to the compliance options and operating requirements in Section 2.2 B.1.d through k above, the Permittee is not required to comply with the compliance options, operating requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this 40 CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A except for the initial notification requirements in 40 CFR 63.9(b).

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

m. Emissions testing of the outlet of the scrubber (**ID No. CD-SCRB**) for formaldehyde emissions is required and the site specific operating parameters as per Section 2.2 B.1.e above, shall be monitored and a maximum, minimum or range established during testing in order to demonstrate continuous compliance. Testing shall be conducted while using MDI resins and under representative operating conditions of at least 90% of the full production rate (ODT) and as defined in 40 CFR 63.2292. The results of the emissions test for formaldehyde shall be reported in units of pounds per hour. The testing shall be conducted biennially (within 24 months of the previous test date) and performed in accordance General Condition JJ. The Permittee shall submit a written report of the test results to the Regional Supervisor, DAQ within 60 days of the completion of the formaldehyde test. If the results of two consecutive compliance tests are less than 80% of the above standard future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard, then biennial testing shall resume. If the results of this test are above the limit given in Section 2.2 B.1.d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

Monitoring Installation, Operation and Maintenance Requirements [40 CFR 63.2269]

n. *General continuous monitoring parameter monitoring requirements* - The Permittee shall install, operate, and maintain each continuous parameter monitoring system (CPMS) for monitoring scrubber flow, pressure and pH according to the following:
    i. The CPMS must be capable of completing a minimum of one cycle of operation (sampling, analyzing, and recording) for each successive 15-minute period.
    ii. At all times, you must maintain the monitoring equipment including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
    iii. Record the results of each inspection, calibration, and validation check.
    iv. The 3-hour block average of all recorded readings, calculated after every 3 hours of operation of all recorded readings as the average of the evenly spaced recorded reading in the previous 3 operating hours shall be determined. [40 CFR 63.2270(d)]
    v. To calculate the data averages for each 3-hour averaging period at least 75 percent of the required recorded readings for that period using only recorded readings shall be based on valid data (not from periods of SSM. [40 CFR 63.2270(f)]

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2282 and .2283]

o. The Permittee shall keep the following:
   i. A copy of each notification and report submitted to comply with this Subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
   ii. The records in 40 CFR 63.6(e)(iii) through (v) related to startup, shutdown, and malfunction before August 13, 2021. Beginning on August 13, 2021, the records related to startup and shutdown, failures to meet the standard, and actions taken to minimize emissions as listed in 40 CFR 63.2282(a)(2)(i) through (iv).
   iii. Documentation of the approved routine control device maintenance exemption, requested under 40 CFR 63.2251.
   iv. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

p. The Permittee must maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). [40 CFR 63.2283(a)]

q. As specified in §63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.2283(b)]

r. The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.2283(c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per Section 2.2 B.1.o through r above.

Notification Requirements [40 CFR 63.2280]

s. The Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified. [40 CFR 63.2280(a)]

The Permittee must 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)(I). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the notification requirements in Section 2.2 B.1.s above are not met.

Reporting Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2281]

t. The Permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June [40 CFR 63.2281(b)(5)]

u. The compliance report must contain the following information:
   i. Company name and address.
   ii. 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.
   iii. Date of report and beginning and ending dates of the reporting period.
   iv. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information specified in §63.10(d)(5)(i) for any instances before August 13, 2021. The compliance report must include the requirements listed in 40 CFR 63.2281(c)(4) for any startups and shutdowns beginning on and after August 13, 2021.
   v. A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the following information:
      (A) The date and time when the control device was shut down and restarted.
      (B) Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline.
      (C) A statement of whether or not the control device maintenance was included in your approved routine control device maintenance exemption developed pursuant to 40 CFR 63.2251. If the control device maintenance was included in your approved routine control device maintenance exemption, then you must report the following information:
         (1) The total amount of time that each process unit controlled by the control device operated during the semiannual compliance period and during the previous semiannual compliance period.
         (2) The amount of time that each process unit controlled by the control device operated while the control device was down for maintenance covered under the routine control device maintenance exemption during the semiannual compliance period and during the previous semiannual compliance period.

(3) Based on the information recorded under paragraphs (1) and (2) above for each process unit, compute the annual percent of process unit operating uptime during which the control device was offline for routine maintenance using Equation 1 of this section.

$$RM = \frac{DT_p + DT_c}{PU_p + PU_c} \qquad (Eq.\ 1)$$

Where:

RM = Annual percentage of process unit uptime during which control device is down for routine control device maintenance;
PU_p = Process unit uptime for the previous semiannual compliance period;
PU_c = Process unit uptime for the current semiannual compliance period;
DT_p= Control device downtime claimed under the routine control device maintenance exemption for the previous semiannual compliance period;
DT_c= Control device downtime claimed under the routine control device maintenance exemption for the current semiannual compliance period.

vi. The results of any performance tests conducted during the semiannual reporting period.
vii. If there are no deviations from any applicable compliance option or operating requirement, a statement that there were no deviations from the compliance options or operating requirements during the reporting period.
viii. If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

v. For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in this Subpart, you must include the information in Section 2.2 B.1.u above and the following. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.
i. The date and time that each malfunction started and stopped.
ii. The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.
iii. The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
iv. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period.
v. A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
vi. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes.
vii. A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.
viii. A brief description of the process units.
ix. A brief description of the CMS.
x. The date of the latest CMS certification or audit.
xi. A description of any changes in CMS, processes, or controls since the last reporting period.
[40 CFR 63.2271, .2281]

2. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY
(40 CFR 63, Subpart DDDD – Compliance through use of Biofilter)

The Permittee shall comply with this permit condition when utilizing urea formaldehyde [UF] resins.

Applicability [40 CFR 63.2231]

a. For the emission sources subject to "**MACT Subpart DDDD**" as indicated in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

Definitions and Nomenclature [40 CFR 63.2292]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.2292 shall apply.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.2290]

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

Compliance Options [40 CFR 63.2240 and Table 1B]

d. For the following emission sources, the Permittee shall comply with **ONE of the following** three pollutant emission limitations by using the biofilter (**ID No. CD-BIO**), EXCEPT as allowed under Section 2.2 B.2.e below. [40 CFR 63.2240(b), 40 CFR 63.2251]

Source	Source ID No.	Ultimate Control Device	Pollutant	MACT Limitation
Heating Plant	ES-HP	Biofilter (ID No. CD-BIO)	Formaldehyde	90% reduction
Blowline flash-tube dryer	ES-DRY		Methanol	90% reduction
Hot oil heated continuous board press	ES-BP		Total HAP measured as THC (as carbon)*	90% reduction
Pressurized refiner	ES-RFN			

You may choose to subtract methane from THC as carbon measurements

e. The emission limitations in Section 2.2 B.2.d above do not apply during times when control device maintenance covered under the approved routine control device maintenance exemption (per application **6200061.19A**) is performed. The Permittee must minimize emissions to the greatest extent possible during these routine control device maintenance periods. [40 CFR 63.2251(d)]

f. Operation of the process units controlled as described in Section 2.2 B.2.d above during periods of routine control device maintenance as requested in application **6200061.19A** must not exceed 3 percent of annual operating uptime for each process unit controlled. [40 CFR 63.2251(b)(1)]

g. The Permittee shall operate the board press **(ID No. ES-BP)** in an enclosure that meets the definition of a wood products enclosure in 40 CFR 63.2292.

h. The Permittee must always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.2250(b)]

i. The Permittee must develop a written Startup, Shutdown, and Malfunction Plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). This condition is no longer an applicable requirement beginning on August 13, 2021. [40 CFR 63.2250(c)]

j. To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down. [40 CFR 63.2251(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the operating requirements in Section 2.2 B.2.d through j are not met.

Operating Requirements [40 CFR 63.2240 and Table 2]

k. The Permittee shall maintain the 24-hour block biofilter bed temperature within the following range established according to §63.2262(m). This temperature range is based on initial performance test, conducted on June 23-24, 2020.
i. minimum biofilter bed temperature: **113.62** °F
ii. maximum biofilter bed temperature: **156.20 °F**
As allowed within §63.2262(m)(2), the facility is allowed up to 180 days after biofilter startup to establish the temperature range.

Affected Sources Not Subject to Operating Requirements [40 CFR 63.2252]

l. For process units not subject to the compliance options and operating requirements in Section 2.2 B.2.d through k above, the Permittee is not required to comply with the compliance options, work practice requirements, performance testing,

monitoring, SSM plans, and recordkeeping or reporting requirements of this 40 CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A except for the initial notification requirements in 40 CFR 63.9(b).

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

m. Emissions testing of the inlet and outlet of the biofilter (**ID No. CD-BIO**) for one or multiple pollutants as listed in Section 2.2 B.2.d above is required and the site specific operating parameters as per Section 2.2 B.2.k above, shall be monitored for the temperature range established during testing in order to demonstrate continuous compliance. The results of the emissions test shall be reported in units of pounds per hour.

Testing was completed on June 23-24, 2020 utilizing UF resins. Repeat performance testing shall be required biennially (within 24 months of the previous test date) and within 180 days after each replacement of any portion of the biofilter bed media with a different type of media or each replacement of more than 50 percent (by volume) of the biofilter bed media with the same type of media. The Permittee shall submit a written report of the test results to the Regional Supervisor, DAQ within 60 days of the completion of the test. Thereafter a biennial test (within 24 months of the previous test date) shall be required. If the results of this test are above the limit given in Section 2.2 B.2.d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111. Testing shall be conducted under representative operating conditions of at least 90% of the full production rate (ODT) and as defined in 40 CFR 63.2292. The testing shall be performed in accordance General Condition JJ.

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

n. The Permittee shall monitor and record the biofilter bed temperature at all times that the process unit is operating, except for, as appropriate:

   i. monitor malfunctions, associated repairs, required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments) [40 CFR 63.2270(a)];
   ii. periods of startup, shutdown, and malfunction; [40 CFR 63.2250] and
   iii. routine control device maintenance downtime events as approved in application **6200061.19A**. [40 CFR 63.2251]

o. For the temperature monitoring system for the biofilter, the Permittee must meet the requirements in 40 CFR 63.2269(a)(1) through (3) and (b)(1) through (6).

p. For purposes of calculating data averages, the Permittee must not use data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities. The Permittee must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitute a deviation from the monitoring requirements. [40 CFR 63.2270(b)]

q. The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities; data recorded during periods of startup, shutdown, and malfunction; or data recorded during periods of control device downtime covered in any approved routine control device maintenance exemption in data averages and calculations used to report emission or operating levels, nor may such data be used in fulfilling a minimum data availability requirement, if applicable. The Permittee must use all the data collected during all other periods in assessing the operation of the control system. [40 CFR 63.2270(c)]

r. The Permittee shall determine the 24-hour block average of all recorded readings, calculated after every 24 hours of operation as the average of the evenly spaced recorded readings in the previous 24 operating hours (excluding periods described in Section 2.2 B.2.p and q above. [40 CFR 63.2270(e)]

s. To calculate the data averages for each 24-hour averaging period, the Permittee must have at least 75 percent of the required recorded readings for that period using only recorded readings that are based on valid data (i.e., not from periods described in Section 2.2 B.2.p and q above). [40 CFR 63.2270(f)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the monitoring requirements in Section 2.2 B.2.m through s are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2282 and .2283]

t. The Permittee must keep the following:
   i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

ii. The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction before August 13, 2021. Beginning on August 13, 2021, the records related to startup and shutdown, failures to meet the standard, and actions taken to minimize emissions as listed in 40 CFR 63.2282(a)(2)(i) through (iv).
iii. Documentation of the approved routine control device maintenance exemption, requested under 40 CFR 63.2251.
iv. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
v. The associated records for conditions (m) through (s).

u. The Permittee must maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). [40 CFR 63.2283(a)]

v. As specified in §63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.2283(b)]

w. The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.2283(c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per Section 2.2 B.2.t through w above.

Notification Requirements [40 CFR 63.2280]

x. The Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified. [40 CFR 63.2280(a)]

The Permittee must 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)(I).

y. The Permittee must notify the NC DAQ within 30 days before any of the following actions are taken: [40 CFR 63.2280(g)]

i. The modification or replacement the control system for any process unit subject to the compliance options and operating requirements in Section 2.2 B.2.d above.
ii. the changing of the 24-hour block average biofilter bed temperature.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the notification requirements in Section 2.2 B.2.x and y are not met.

Reporting Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2281]

z. The permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June [40 CFR 63.2281(b)(5)]

aa. The compliance report must contain the following information:
i. Company name and address.
ii. 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.
iii. Date of report and beginning and ending dates of the reporting period.
iv. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information specified in §63.10(d)(5)(i) for any instances before August 13, 2021. The compliance report must include the requirements listed in 40 CFR 63.2281(c)(4) for any startups and shutdowns beginning on and after August 13, 2021.
v. A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the following information:
(A) The date and time when the control device was shut down and restarted.
(B) Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline.
(C) A statement of whether or not the control device maintenance was included in your approved routine control device maintenance exemption developed pursuant to 40 CFR 63.2251. If the control device maintenance was included in your approved routine control device maintenance exemption, then you must report the following information:
(1) The total amount of time that each process unit controlled by the control device operated during the semiannual compliance period and during the previous semiannual compliance period.

(2) The amount of time that each process unit controlled by the control device operated while the control device was down for maintenance covered under the routine control device maintenance exemption during the semiannual compliance period and during the previous semiannual compliance period.
(3) Based on the information recorded under paragraphs (1) and (2) above for each process unit, compute the annual percent of process unit operating uptime during which the control device was offline for routine maintenance using Equation 1 of this section.

$$RM = \frac{DT_p + DT_c}{PU_p + PU_c} \qquad (Eq.\ 1)$$

Where:
RM = Annual percentage of process unit uptime during which control device is down for routine control device maintenance;
PU_p= Process unit uptime for the previous semiannual compliance period;
PU_c= Process unit uptime for the current semiannual compliance period;
DT_p= Control device downtime claimed under the routine control device maintenance exemption for the previous semiannual compliance period;
DT_c= Control device downtime claimed under the routine control device maintenance exemption for the current semiannual compliance period.

vi. The results of any performance tests conducted during the semiannual reporting period.
vii. If there are no deviations from any applicable compliance option or operating requirement, a statement that there were no deviations from the compliance options or operating requirements during the reporting period.
viii. If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

bb. For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in this subpart, you must include the information in Section 2.2 B.2.aa above and the following. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.
i. The date and time that each malfunction started and stopped.
ii. The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.
iii. The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
iv. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period.
v. A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
vi. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes.
vii. A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.
viii. A brief description of the process units.
ix. A brief description of the CMS.
x. The date of the latest CMS certification or audit.
xi. A description of any changes in CMS, processes, or controls since the last reporting period.
[40 CFR 63.2271, .2281]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in Section 2.2 B.2.z. through bb are not met.

C. Wood Handling Sources Subject to 15A NCAC 02D .0614, including:

- **One dried fiber grader system No. 1 (ID No. ES-21) controlled by one simple cyclone (ID No. CD-CY21) in series with one bagfilter (ID No. CD-FF21);**
- **One dried fiber grader system No. 2 (ID No. ES-22) controlled by one simple cyclone (ID No. CD-CY22) in series with one bagfilter (ID No. CD-FF22);**
- **One mat trimmings return air system (ID No. ES-23) controlled by two parallel simple cyclones (ID Nos. CD-CY23A and CD-CY23B) in series with one bagfilter (ID No. CD-FF23);**
- **One fine sanderdust pneumatic conveyor system (ID No. ES-31) controlled by one bagfilter (ID No. CD-FF31);**
- **One coarse sanderdust pneumatic conveyor system (ID No. ES-32) controlled by one bagfilter (ID No. CD-FF32);**
- **One sawing and cutting pneumatic conveyor system (ID No. ES-33) controlled by one bagfilter (ID No. CD-FF33);**
- **One press trim saw and dust collection system (ID No. ES-34) controlled by one simple cyclone (ID No. CD-CY34) in series with one bagfilter (ID No. CD-FF34); and**
- **Pneumatic chip handling infeed system (ID No. ES-FHS) controlled by one high efficiency cyclone (ID No. CD-CYFHS) installed in series with one bagfilter (ID No. CD-FF23)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter PM10	Adequate duct work and properly designed collectors	15A NCAC 02D .0512

1. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

a. For sources listed in paragraph 2.2 C.1.a.i and associated control devices listed in paragraph 2.2 C.1.a.ii below, the Permittee shall comply with 40 CFR Part 64, pursuant to 15A NCAC 02D .0614, to assure that all listed emission sources and control devices comply with the particulate emission limits of 15A NCAC 02D .0512.
   i. Emission sources: ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, ES-FHS
   ii. Control devices: CD-CY21, CD-FF21, CD-CY22, CD-FF22, CD-CY23A, CD-CY23B, CD-CYFHS, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34

b. **Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f)]
The Permittee shall maintain the pressure drop across the bagfilter between 0.1 and 10 inches of water on a daily average basis. An exceedance is defined as a pressure drop outside the indicator range of 0.1 and 10 inches of water on a daily average basis.

The Permittee shall install, operate, and maintain a pressure gauge that measures the pressure drop across the bag filter.
   i. The Permittee shall perform routine calibration, inspections and maintenance as recommended by the pressure gauge's manufacturer.
   ii. The Permittee shall continuously monitor and record the pressure drop across the bag filter.

When an exceedance occurs, the Permittee shall be deemed in noncompliance with the applicable emission limit specified in 2.2.C above of the applicable regulation 15A NCAC 02D .0512.

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

The permittee shall comply with the recordkeeping requirements of 40 CFR 64.9 (b) and submit the reports that shall include, at a minimum, the following information, as applicable:
   i. Summary information on the number, duration and cause (including unknown cause, if applicable) of exceedances, as applicable, and the corrective actions taken;
   ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if

applicable); and

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

2.3 Permit Shield for Non-Applicable Requirements

The Permittee is shielded from the following non-applicable requirements [15A NCAC 02Q .0512(a)(1)(A) and (B)].

A. New Source Performance Standard (NSPS) Subpart Db is not applicable to the heating plant **(ID No. ES-HP)** because the heating plant is considered a process heater and the primary purpose is to produce a final product.

The heating plant **(ID No. ES-HP)** consists of:

- one wood-fired boiler **(ID No. ES-HP-1)**;
- one sanderdust duct burner system **(ID No. ES-HP-2)**;
- two No. 2 fuel oil-fired auxiliary burners **(ID Nos. ES-HP-3 and ES-HP-4)**;
- one No. 2 fuel oil-fired auxiliary burner **(ID No. ES-HP-5)**,
- two natural gas fired auxiliary burners **(ID Nos. ES-HP-6 and ES-HP-7)**;
- one natural gas fired auxiliary burner **(ID No. ES-HP-8)**;

with associated multicyclone **(ID No. CD-01)**, aqueous-assisted fiber removal chamber **(ID No. CD-SCRB)** and Biofilter **(ID No. CD-BIO)**, in series.

B. 15A NCAC 02Q .0512: PERMIT SHIELD FOR BIOFILTER (ID No. CD-BIO)

a. The biofilter must be operated when the facility is utilizing UF resins for THDF manufacturing. When utilizing MDI resins for THDF manufacturing, the biofilter is a voluntary optional control and is not required to be operated.

b. The facility shall track resin usage and biofilter operation to demonstrate compliance with Condition No. 2.3-B.a. above.

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

c. The Permittee shall submit a summary report of the resins usage and biofilter operation postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified

SECTION 3 - GENERAL CONDITIONS (version 5.5, 08/25/2020)

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

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]
The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]
In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

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

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]
The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

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

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

H. **Changes Not Requiring Permit Modifications**
1. Reporting Requirements
   Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application;
   b. changes that modify equipment or processes; or
   c. changes in the quantity or quality of materials processed.

   If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
   a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
   b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
      i. the changes are not a modification under Title I of the Federal Clean Air Act;
      ii. the changes do not cause the allowable emissions under the permit to be exceeded;
      iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
      iv. the Permittee shall attach the notice to the relevant permit.
   c. The written notification shall include:
      i. a description of the change;
      ii. the date on which the change will occur;
      iii. any change in emissions; and
      iv. any permit term or condition that is no longer applicable as a result of the change.
   d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
   The Permittee may make changes in the operation or emissions without revising the permit if:
   a. the change affects only insignificant activities and the activities remain insignificant after the change; or
   b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
   To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

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

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*

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

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
    a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
        i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
            - name and location of the facility;
            - nature and cause of the malfunction or breakdown;
            - time when the malfunction or breakdown is first observed;
            - expected duration; and
            - estimated rate of emissions;
        ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
        iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
    a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B **Other Requirements under 15A NCAC 02D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.

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

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]
This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]
It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]
1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]
The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]
The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]
The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional

requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

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

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
   a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
   b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
   c. the applicable requirements under Title IV; or
   d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

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

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

T. **Insignificant Activities** [15A NCAC 02Q .0503]

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

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

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

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
   a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
   b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
   c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
   d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

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

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History [**15A NCAC 02Q .0507(d)(3)]

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

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]

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

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

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

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

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

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]
Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]
Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

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

KK. **Reopening for Cause** [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
   a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
   b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
   c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
   d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. **Reporting Requirements for Non-Operating Equipment** [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

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

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

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

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

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
   a. a description of the change at the facility;
   b. the date on which the change will occur;
   c. any change in emissions; and
   d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

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

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

ATTACHMENT

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
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
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
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