ROY COOPER Governor ELIZABETH S. BISER Secretary MICHAEL ABRACZINSKAS Director



TBD, 2022

Bryan Grissett Plant Manager Enviva Pellets, LLC – Ahoskie Plant 142 N.C. Route 561 East Ahoskie, North Carolina 27910

SUBJECT: Air Quality Permit No. 10121T06 Facility ID: 4600107 Enviva Pellets, LLC – Ahoskie Plant Ahoskie Hertford County Fee Class: Title V PSD Class: Major

Dear Mr. Grissett:

In accordance with your Air Permit Application for renewal and modification of your Title V permit, we are forwarding herewith Air Quality Permit No. 10121T06 authorizing the construction and operation, of the emission sources and associated air pollution control devices specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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

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



Mr. Bryan Grissett TBD Page 2

143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Hertford County has triggered increment tracking under PSD for NOx, SO₂, PM-10, and PM-2.5. This modification will result in a decrease of 8.66 pounds per hour of NOx, an increase of 0.05 pounds per hour of SO₂, a decrease of 17.35 pounds per hour of PM-10, and a decrease of 19.21 pounds per hour of PM-2.5.

This Air Quality Permit shall be effective from TBD until TBD, 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 Richard Simpson at (919) 707-8476 or richard.simpson@ncdenr.gov.

Sincerely yours,

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

Enclosure

c: Michael Sparks, EPA Region 4 (Permit and Review) Washington Regional Office Central Files Connie Horne (Cover letter only)

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

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

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

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

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

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

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

* * *

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

Summary of Changes to Permit

Page No.	Section	Description of Changes	
Cover	N/A	Updated cover letter with application number, permit numbers,	
Letter		and dates.	
NA	Attachment	Added the "Notice Regarding the Right to Contest a Division of	
		Air Quality Permit Decision".	
Attachment	Insignificant	Combined and moved green wood hammermill (IES-CHP2) to	
	Activities	Section 1 as a significant activity. The description remains as	
		"green hammermill" and ID No. changes to ES-GHM-1.	
Attachment	Insignificant	Moved green wood handling and storage (IES-GWHS) to Section	
	Activities	1 as a significant activity. The description remains as "green	
		wood handling and storage" and ID No. changes to ES-GWHS.	
Attachment	Insignificant	Moved Dry Wood Handling (ID No. IES-DWH) to Section 1 as	
	Activities	a significant activity and renamed identification to (ID No. ES-	
		DWH).	
Attachment	Insignificant	Removed pellet press system (IES-PP) since the source is	
	Activities	already included in the pellet cooler exhaust.	
Attachment	Insignificant	Added two natural gas-fired low NOx double duct burners (each	
	Activities	rated at 2.5 million Btu per hour) with identifications (ID Nos.	
		DDB-1 and IES-DDB-2).	
Attachment	U	Added the additive handling and storage with identification (ID	
A 1	Activities	No. IES-ADD).	
Attachment	Insignificant	Added the dry shavings handling and storage systems with	
	Activities	identification (ID No. IES-DRYSHAVE) with a maximum	
Attachmant	Incignificant	throughput of 100,000 ODT per year.	
Attachment	Insignificant Activities	Removed electric powered green wood chipper (IES-CHP-1)	
Attachment	Insignificant	since the chipping is done offsite. Renamed identification to the two existing Diesel storage tanks	
Attachiment	Activities	from IST-1 and IST-2 to IES-TK-1 and IES-TK-2.	
Attachment	Insignificant	Added Diesel storage tank (ID No. IES-TK-3) with a capacity of	
Attachinent	Activities	600 gallons and Diesel storage tank (ID No. IES-TK-3) with a capacity of	
	Then villes	capacity of 1,000 gallons.	
Attachment	Insignificant	Added a compressed natural gas terminal with identification (ID	
111110111	Activities	No. IES-CNGT).	
Attachment	Insignificant	Added maximum through put for the electric powered bark hog	
	Activities	(IES-BARK) at 91,406 ODT per year.	
Attachment	Insignificant	Replaced the Diesel-fired fire water pump rated at 229	
	Activities	horsepower instead of 300 horsepower.	
Attachment	Insignificant	Added two natural gas-fired boilers each rated at 9.9 million Btu	
	Activities	per hour. ID Nos. IES-BOIL1 and IES-BOIL2.	
Attachment	Table of Contents	Updated the Table of Contents and moved the List of Acronyms	
		from the end of the permit to this area of the permit.	
New	New	Added three green hammermills with ID Nos. ES-GHM-2	
		through ES-GHM-4. All the green hammermills are controlled	
		by the existing precipitator (CD-WESP) in series with the new	
		oxidizer (CD-RTO).	

The following changes were made to Enviva Pellets, LLC – Ahoskie Plant, Ahoskie, NC., Air Permit No. 10121T05*.

Page No.	Section	Description of Changes
New	New	Added one natural gas-fired regenerative thermal oxidizer rated at 40 million Btu per hour. The ID No. is CD-RTO.
4, 5	Section 1, Section 2.1 A.	Deleted the dryer cyclone as a control device (CD-DC) since it is integral in transporting product. After CD-WESP, the exhaust from the existing dryer (ES-DRYER) will be controlled by the new oxidizer (CD-RTO).
New	New	Added the existing furnace bypass stack with Diesel startup. The ID No. is ES-FURNACEBYP
4, 5	Section 1, Section 2.1 A.	Added two dry wood hammermills with ID Nos. of ES-DHM-6 and ES-DHM-7. Added existing dust control system with an ID No. of ES-DCS. Deleted the dry wood hammermills simple cyclones (CD-DHM-C1 through CD-DHM-C4) as control devices since they are integral in transporting product.
4, 5	Section 1, Section 2.1. A	All of the dry hammermills and the dust control system exhausts to the existing fabric filters then to either the dryer or the precipitator. All exhaust from the referenced sources are always controlled by the fabric filters in series with the precipitator in series with new oxidizer (CD-RTO). Added footnote 1 at the bottom of Section 1.
New	New	Added the dry shavings hammermill with integral cyclone and an ID No. of ES-DSHM. The exhaust from ES-DSHM is controlled by existing bin vent filter ECD-DWDS-BV in series with the new oxidizer CD-RCO.
New	New	Added one natural gas-fired regenerative catalytic oxidizer (20 million Btu per hour heat input) that can operate as a regenerative thermal oxidizer. The ID No. is CD-RCO.
4, 5	Section 1, Section 2.1 A.	The exhaust from the existing dry wood day silo (ES-DWDS) is controlled by the existing bin vent filter (CD-DWDS-BV) in series with the new oxidizer (CD-RCO).
4, 5	Section 1, Section 2.1 A.	Added one new pellet cooler with an ID No. of ES-CLR6 and one new simple cyclone with an ID No. of CD-CLR-C4. All of the pellet coolers' exhaust are controlled by the cyclones in series with new oxidizer (CD-RCO).
New	New	To the table, added PSD and HAP avoidance conditions and regulations for 02D .0614, 02D.1100, and 02D .1806.
5	Section 2.1 A	For the appropriate sources and control devices, added emission limitations, monitoring, recordkeeping, and reporting for 02D .0515, 02D .0516, and 02D .0521.
5	Section 2.1 A	Moved the dry hammermills and associated control devices to new Section 2.1 B. For the appropriate sources and control devices, added emission limitations, monitoring, recordkeeping, and reporting for 02D .0515, 02D .0516, and 02D .0521.
5	Section 2.1 A	Moved the dried wood day silo, pellet mill feed silo, pellet coolers, fines bin, finished product handling, truck loadout and pellet loadouts and associated control devices to new Section 2.1 C. For the appropriate sources and control devices, added emission limitations, monitoring, recordkeeping, and reporting for 02D .0515, 02D .0516, and 02D .0521.

Page No.	Section	Description of Changes	
New	New	Added the Facility-wide Emissions Sources Table.	
9	Sections 2.2 A.1.	Moved Section 2.2 A.1 to Section 2.2 A.10 (Fugitive Dust Emission Sources).	
9	Sections 2.2 A.2.	Moved Section 2.2 A.2 to Section 2.2 A.6 (Toxic Air Pollutant Emission limitation and Requirements). Updated 15A NCAC 02D .1100 requirements to the current shell.	
10	Sections 2.2 A.3.	Moved Section 2.2 A.3 to Section 2.2 A.8 (Emission Rates Requiring a Permit). Updated 15A NCAC 02Q .0711 requirements to the current shell.	
11	Sections 2.2 A.4.	Moved Section 2.2 A.4 to Section 2.2 A.1. Added existing throughput limits to the wood-fired dryer, the dry hammermills, and the pellet cooler systems (Existing PSD Avoidance Conditions).	
New	New	Added PSD Avoidance Conditions for PM, PM10, PM2.5, NOx, VOC, and CO with throughput limits, emission testing, monitoring, recordkeeping, and reporting requirements after construction is completed.	
New	New	Added Avoidance Conditions for HAPS that includes, emission testing, monitoring, recordkeeping, and reporting requirements after construction is completed.	
New	New	Added Compliance Assurance Monitoring for the appropriate sources including requirements before and after construction.	
New	New	Added approved modeled Toxic Air Pollutant Emission limitation and Requirements for the appropriate sources after construction.	
New	New	Added 15A NCAC 02D .1806 regulation.	
New	New	Added "Construction Schedule".	
13 - 21	Section 3	The General Conditions were updated to the latest version of DAQ shell.	

*This list is not intended to be a detailed record of every change made to the permit but a summary of those changes.



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

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
10121T06	10121T05	TBD	TBD

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than TBD, 2027.

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:	Enviva Pellets, LLC – Ahoskie Plant
Facility ID:	4600107
SIC Code:	2499
NAICS Code:	321999
Facility Site Location:	142 N.C. Route 561 East
City, County, State, Zip:	Ahoskie, Hertford County, North Carolina, 27910
Mailing Address:	142 N.C. Route 561 East
City, State, Zip:	Ahoskie, North Carolina 27910
Application Number(s):	4600107.20B and 4600107.17A
Complete Application Date(s):	August 14, 2017, September 2, 2020 (as amended December 23, 2021)
Division of Air Quality,	Washington Regional Office
Regional Office Address:	943 Washington Square Mall
	Washington, NC 27889

Permit issued this the XX day of TBD, 2022.

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

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- SECTION 4: GENERAL PERMIT CONDITIONS

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
BAL	British thermal unit
CAA	Clean Air Act
CAA CAM	Compliance Assurance Monitoring
CAM CEMS	
CFR	Continuous Emission Monitoring System
	Code of Federal Regulations Carbon Monoxide
CO	
COMS	Continuous Opacity Monitoring System Cross-State Air Pollution Rule
CSAPR	
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _X	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR OAH	New Source Review
-	Office of Administrative Hearings
PAE PAL	Projected Actual Emissions
PM	Plantwide Applicability Limitation Particulate Matter
PM2.5	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM10	
POS	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	
	Potential to Emit Reasonably Available Control Technology
RACT SIC	Standard Industrial Classification
SIP	State Implementation Plan
SIP SO ₂	Sulfur Dioxide
SO2 TAP	Toxic Air Pollutant
	Tons Per Year
tpy VOC	Volatile Organic Compound
VUC	volanic Organic Compound

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

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

Emission Source	ins a summary of all permitted emission sou	Control Device	bolitation control devices and appurtenances.
ID No.	Emission Source Description	ID No.	Control Device Description
ES-GWHS	Green wood handling and storage	NA	NA
ES-GHM-1	Four green hammermills	CD-WESP	One wet electrostatic precipitator (29,904
through			square feet of total collection plate area)
ES-GHM-4			
		CD-RTO	One natural gas-fired regenerative thermal
ES-DRYER	Direct heat, wood-fired dryer (175.3	CD-WESP	oxidizer (40 million Btu per hour)
CAM	million Btu per hour maximum heat	CD-WESP	One wet electrostatic precipitator (29,904 square feet of total collection plate area)
CAN	input) with integral cyclone		square reet of total concetion plate area)
		CD-RTO	One natural gas-fired regenerative thermal
			oxidizer (40 million Btu per hour)
ES-FURNACEBYP	Furnace bypass,	NA	NA
	diesel startup		
ES-DWH	Dried wood handling	NA	NA
ES-DHM-1,	Seven dry wood hammermills with	CD-DHM-FF1	Two fabric filters (6,667 square feet of
through	integral cyclones	through CD-DHM-	filter area each) and one fabric filter (5,417
ES-DHM-7		FF3	square feet of filter area)
ES-DCS	Dust control system	CD-WESP	One wet electrostatic precipitator (29,904
			square feet of total collection plate area)
		CD-RTO	One natural gas-fired regenerative thermal
			oxidizer (40 million Btu per hour)
		OR	OR
		CD-DHM-FF1	Two fabric filters (6,667 square feet of
		through CD-DHM- FF3	filter area each) and one fabric filter (5,417 square feet of filter area)
		115	square reet of filter area)
		ES-DRYER	Direct heat, wood-fired dryer (175.3
			million Btu per hour maximum heat input)
		CD-WESP	One wet electrostatic precipitator (29,904
			square feet of total collection plate area)
		CD-RTO	One natural gas-fired regenerative thermal
			oxidizer (40 million Btu per hour)
ES-DSHM	Dry shavings hammermill with	CD-DWDS-BV	One bin vent filter (377 square feet of filter
	integral cyclone		area)
		CD-RCO	One natural gas-fired regenerative catalytic
			oxidizer (20 million Btu per hour heat
			input) that can operate as a regenerative
			thermal oxidizer

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-DWDS	Dried wood day silo	CD-DWDS-BV	One bin vent filter (377 square feet of filter area)
		CD-RCO	One natural gas-fired regenerative catalytic oxidizer (20 million Btu per hour heat input) that can operate as a regenerative thermal oxidizer
ES-PMFS	Pellet feed mill silo	CD-PMFS-BV	One bin vent filter (377 square feet of filter area)
ES-CLR1 through ES-CLR6 CAM	Six pellet coolers	CD-CLR-C1 through CD-CLR-C4	Two multicyclones (43 inch diameter tube each) and two simple cyclones
		CD-RCO	One propane or natural gas-fired regenerative catalytic oxidizer (20 million Btu per hour heat input) that can operate as a regenerative thermal oxidizer
ES-FB CAM	Fines bin	CD-FB-BV	One bin vent filter (325 square feet of filter area)
ES-FPH CAM	Finished product handling	CD-FPH-BF	One bagfilter (4,842 square feet of filter area)
ES-TLB ES-PL-1 ES-PL-2	Truck loadout bin (with 12 bottoms) Two pellet loadouts		

 All air flow from the dry hammermills (ES-DHM-1 through ES-DHM-7) is controlled by bagfilters (ID Nos. CD-DHM-FF1 through CD-DHM-FF3), the WESP (ID No. CD-WESP), and the RTO (ID No. CD- RTO). Under normal operations, all air flow from the bagfilters on the dry hammermills is ducted to the dryer furnace prior to treatment by the WESP and the RTO. In the event of reduced furnace/dryer operation, a portion of the air flow from the bagfilters on the dry hammermill is ducted directly to the WESP for treatment by the WESP in series with the RTO. In the event of the shutdown of the furnace/dryer system, all air flow from the bagfilters on the dry hammermills is ducted directly to the WESP and RTO.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS2.1 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. Green wood handling and storage (ID No. ES-GWHS)

Four (4) green hammermills (ID Nos. ES-GHM-1 through ES-GHM-4) controlled by a wet electrostatic precipitator (ID No. CD-WESP) and a regenerative thermal oxidizer (ID No. CD-RTO)

Wood-fired direct heat drying system (ID No. ES-DRYER) with associated integral cyclone controlled by a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO)

Furnace bypass (ID No. ES-FURNACEBYP)

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter (PM)	$E = 4.10 \text{ x } P^{0.67} \qquad \text{for } P < 30 \text{ tph}$ $E = 55 \text{ x } P^{0.11} - 40 \qquad \text{for } P \ge 30 \text{ tph}$ where, $E = \text{allowable emission rate (lb/hr)}$ P = process weight rate (tph)	15A NCAC 02D .0515
Sulfur Dioxide	(ID Nos. ES-DRYER, ES-FURNACEBYP, and CD- RTO) 2.3 pounds per million Btu	15A NCAC 02D .0516
Visible Emissions	20 percent opacity when averaged over a 6-minute period	15A NCAC 02D .0521
Volatile Organic Compounds (VOC)	Enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Less than 391.6 tons of VOC per consecutive 12-month period, See Section 2.2 A.1	15A NCAC 02Q .0317 for avoidance of 15A NCAC 02D .0530
	Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met.	15A NCAC 02Q .0317 for avoidance of 15A NCAC 02D .0530
PM/PM10/PM2.5 VOC NOx CO	Less than 250 tons per consecutive 12-month period, Less than 250 tons per consecutive 12-month period, Less than 250 tons per consecutive 12-month period, Less than 250 tons per consecutive 12-month period See Section 2.2 A.2	
Hazardous Air Pollutants (HAP)	Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Less than 25 tons for combined HAPs per consecutive 12- month period. Less than 10 tons for each single HAP per consecutive 12- month period. See Section 2.2 A.3	15A NCAC 02Q .0317 for avoidance of 15A NCAC 02D .1112 MACT
Particulate Matter	Enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Compliance Assurance Monitoring (ID No. ES-DRYER) See Section 2.2 A.4	15A NCAC 02D .0614

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Compliance Assurance Monitoring (ID No. ES-DRYER via CD-RTO) See Section 2.2 A.5	15A NCAC 02D .0614
Toxic Air Pollutants	State-enforceable only Enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. See Section 2.2 A.6	15A NCAC 02D .1100
Toxic Air Pollutants	State-enforceable only Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. See Section 2.2 A.7	15A NCAC 02D .1100
Toxic Air Pollutants	State-enforceable only See Section 2.2 A.8	15A NCAC 02Q .0711
Odorous Emissions	State-enforceable only See Section 2.2 A.9	15A NCAC 02D .1806
Fugitive Dust	State-enforceable only See Section 2.2 A.10	15A NCAC 02D .0540

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

a. Emissions of particulate matter from these sources (**ID Nos. ES-GWHS, ES-GHM-1 through ES-GHM-4, ES-DRYER, and FURNACEBYP**) shall not exceed an allowable emission rate as calculated by the following equation:

$$\begin{split} & E = 4.10 \ x \ P^{\ 0.67} \qquad \mbox{ for } P < 30 \ tph \\ & E = 55 \ x \ P^{0.11} - 40 \qquad \mbox{ for } P \ge 30 \ tph \end{split}$$

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.
- c. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall test the outlet of the regenerative thermal oxidizer (**ID No. CD-RTO**) for total suspended particulate (TSP) in accordance with a testing protocol approved by the DAQ. Testing shall be completed within 180 days of commencement of operation of the regenerative thermal oxidizer and the results submitted within 30 days of completion of the test unless an alternate date is approved by the DAQ. Testing shall be conducted as specified in Section 2.2 A.2.d. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

d. A notification of the actual date of initial startup of the new source (**ID No. ES-GHM-4**) and new control device (**ID No. CD-RTO**) shall be postmarked within 15 days after such date.

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

- e. For these sources (**ID** Nos. **ES-GWHS and ES-FURNACEBYP**), 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.
- f. No reporting is required for particulate emissions from these sources (ID Nos. ES-GWHS and ES-

g.

FURNACEBYP).

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

For wet electrostatic precipitator, and regenerative thermal oxidizer:

- Particulate matter emissions shall be controlled as follows:
- i. Particulate matter emissions from the green hammermills (**ID Nos. ES-GHM-1**, **through ES-GHM-4**) shall be controlled by a wet electrostatic precipitator (**ID No. CD-WESP**) in series with a regenerative thermal oxidizer (**ID No. CD-RTO**);
- Particulate matter emissions from the wood-fired direct heat drying system (ID No. ES-DRYER) shall be controlled by a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO);
- h. To ensure compliance and effective operation of the wet electrostatic precipitator (**ID No. CD-WESP**), the Permittee shall:
 - i. operate the wet electrostatic precipitator with at least the minimum number of grids operating during compliance testing specified in Section 2.2 A.2;
 - ii. maintain the minimum secondary voltage at 20 kV and minimum current at 200mA until new minimum values are established during compliance testing specified in Section 2.2 A.2;
 - iii. monitor and record the secondary voltage and current for each grid of the precipitator daily. The daily observation must be made for each day of the calendar year period. The Permittee shall be allowed three (3) days of absent observations per semiannual period.
 - iv. The Permittee may re-establish any parametric operating value during periodic testing. Compliance with previously approved parametric operating values is not required during periodic required testing or other tests undertaken to re-establish parametric operating values by the Permittee. Until parametric operating values have been established, the permittee shall operate the control device in accordance with the manufacturer's recommended values.

Once initial testing has been performed, the parameters in Section 2.1 A.1.h will be established and included in the next permit.

- i. To ensure compliance, the Permittee shall perform inspections and maintenance on the wet electrostatic precipitator (**ID Nos. CD-WESP**), and the regenerative thermal oxidizer (**ID Nos. CD-RTO**) as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection units for leaks;
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection of the heat transfer medium and associated inlet/outlet valves on the regenerative thermal oxidizer (**ID No. CD-RTO**); and
 - iii. an annual (for each 12-month period following the initial inspection) internal inspection of the wet electrostatic precipitator (**ID No. CD-WESP**). This inspection must include (but is not limited to) the following:
 - (A) visual checks of critical components,
 - (B) checks for any equipment that does not alarm when de-energized, to ensure it is operational,
 - (C) checks for signs of plugging in the hopper and gas distribution equipment, and replacement of broken equipment as required.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the wet electrostatic precipitator (**ID Nos. CD-WESP**), and the regenerative thermal oxidizer (**ID Nos. CD-RTO**) are not inspected and maintained per Section 2.1 A.1.i above.

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

- j. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site for five years 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 devices; 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.

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

- k The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- 1. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1

A.1.g through Section 2.1 A.1.j 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 these sources (**ID Nos. ES-DRYER, ES-FURNACEBYP, and CD-RTO**) 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 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of biomass in the wood-fired direct heat drying systems (ID No. ES-DRYER), natural gas for regenerative thermal oxidizers (ID No. CD-RTO), and diesel fuel in the furnace (ID No. ES-FURNACEBYP).

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

a. Visible emissions from these sources (ID Nos. ES-GWHS, ES-GHM-1 through ES-GHM-4, ES-DRYER, and ES-FURNACEBYP) 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 month the Permittee shall observe the emission points of these sources (ID Nos. ES-GWHS, ES-GHM-1 through ES-GHM-4, and ES-DRYER) 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. For all new emission sources or control devices listed in the above table, the Permittee shall establish "normal" in the first 30 days following the commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monthly 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 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; or if "normal" is not established for these sources in the first 30 days of beginning operation.

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

- d. To ensure compliance and during idle mode operation, the Permittee shall observe the emission points of this source (**ID Nos. ES-FURNACEBYP**) for any visible emissions above normal. The idle mode observation must be made for each furnace idle mode of the calendar year period to ensure compliance with this requirement.
 - If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the furnace idle mode 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 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; or if "normal" is not established for these sources in the first idle bypass mode following beginning of operation.

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

- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site for five years 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 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.

B. Dried wood handling (ID No. ES-DWH);

Seven (7) dry hammermills (ID Nos. ES-DHM-1 through ES-DHM-7) with associated integral cyclones and one dust control system (ID No. ES-DCS) in series with three (3) bagfilters (ID Nos. CD-DHM-FF-1 through CD-DHM-FF-3) in series with a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO) OR

Seven (7) dry hammermills (ID Nos. ES-DHM-1 through ES-DHM-7) with associated integral cyclones and one dust control system (ID No. ES-DCS) in series with three (3) bagfilters (ID Nos. CD- DHM-FF-1 through CD-DHM-FF-3) in series with a wood-fired direct heat drying system furnace (ID No. ES-DRYER) in series with a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E = 4.10 \text{ x } P^{0.67}$ for $P < 30 \text{ tph}$	15A NCAC 02D .0515
	$E = 55 \text{ x } P^{0.11} - 40$ for $P \ge 30 \text{ tph}$	
	where, $E =$ allowable emission rate (lb/hr)	
	P = process weight rate (tph)	
Visible Emissions	20 percent opacity when averaged over a 6-minute period	15A NCAC 02D .0521
Volatile Organic	Enforceable until all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
Compounds (VOC)	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .0530
	met.	
	Less than 391.6 tons of VOC per consecutive 12-month period, See Section 2.2 A.1	
	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .0530
	met.	
PM/PM10/PM2.5	Less than 250 tons per consecutive 12-month period,	
VOC	Less than 250 tons per consecutive 12-month period,	
NOx CO	Less than 250 tons per consecutive 12-month period, Less than 250 tons per consecutive 12-month period	
0	See Section 2.2 A.2	
Hazardous Air	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
Pollutants (HAP)	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .1112 MACT
	met.	
	Less than 25 tons for combined HAPs per consecutive	
	12-month period. Less than 10 tons for each single HAP per consecutive	
	12-month period.	
	See Section 2.2 A.3	
Toxic Air Pollutants	State-enforceable only	15A NCAC 02D .1100
	Enforceable until all of the requirements from Section	
	2.3 A, "Actions to be Taken by the Permittee", have been	
	met.	
Toxic Air Pollutants	See Section 2.2 A.6 State-enforceable only	15A NCAC 02D .1100
TOXIC AIT POILUTAILS	Enforceable after all of the requirements from Section	13A NCAC 02D .1100
	2.3 A, "Actions to be Taken by the Permittee", have been	
	met.	
	See Section 2.2 A.7	

Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants	State-enforceable only See Section 2.2 A.8	15A NCAC 02Q .0711
Odorous Emissions	State-enforceable only See Section 2.2 A.9	15A NCAC 02D .1806
Fugitive Dust	State-enforceable only See Section 2.2 A.10	15A NCAC 02D .0540

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

a. Emissions of particulate matter from these sources (**ID Nos. ES-DWH, ES-DHM-1 through ES-DHM-7, and ES-DSC**) shall not exceed an allowable emission rate as calculated by the following equation:

$$\begin{split} & E = 4.10 \ x \ P^{\ 0.67} & \mbox{for } P < 30 \ tph \\ & E = 55 \ x \ P^{0.11} - 40 & \mbox{for } P \ge 30 \ tph \end{split}$$

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

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

c. A notification of the actual date of initial startup of the new sources (**ID Nos. ES-DHM-6 and ES-DHM-7**) shall be postmarked within 15 days after such date.

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

- d. For these sources (**ID** Nos. **ES-DWH**), 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.
- e. No reporting is required for particulate emissions from these sources (ID No. ES-DWH).

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

- f. Particulate matter emissions shall be controlled as follows:
 - Particulate matter emissions from the seven (7) dry hammermills (ID Nos. ES-DHM-1 through ES-DHM-7) with integral cyclones and one dust control system (ID No. ES- DCS) shall be controlled by fabric filter (ID Nos. CD-DHM-FF-1 through CD-DHM-FF-3) in series with a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO); or
 - Particulate matter emissions from the seven (7) dry hammermills (ID Nos. ES-DHM-1 through ES-DHM-7) with integral cyclones and one dust control system (ID No. ES- DCS) shall be controlled by fabric filter (ID Nos. CD-DHM-FF-1 through CD-DHM-FF-3) shall be routed to a wood-fired direct heat drying system furnace (ID No. ES-DRYER), controlled by a wet electrostatic precipitator (ID No. CD-WESP) in series with a regenerative thermal oxidizer (ID No. CD-RTO);
- g. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection units for leaks; and
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection of the filters' structural integrity.

iii. monitor the wet electrostatic precipitator (**ID** No. **CD-WESP**) and the thermal regenerative oxidizer (**ID** No. **CD-RTO**) as specified in Section 2.1 A.1.h and i.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork, fabric filters, wet electrostatic precipitator, and regenerative thermal oxidizer are not inspected and maintained.

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

- h. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site for five years 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 devices; 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.

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

- i. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- j. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1. B.1.f through Section 2.1 B.1.h above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. 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-DWH, ES-DHM-1 through ES-DHM-7, and ES-DCS**) 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 B.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-DWH, ES-DHM-1 through ES-DHM-7, and ES-DCS) 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. For all new emission sources or control devices listed in the above table, the Permittee shall establish "normal" in the first 30 days following the commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monthly monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a above.

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; or if "normal" is not established for these sources in the first 30 days of beginning operation.

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site for five years 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 Sections 2.1 B.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. C. Dry shavings hammermills (ID Nos. ES-DSHM) and dried wood day silo (ID No. ES-DWDS) with associated bin vent filter (ID No. CD-DWDS-BV) in series with a regenerative catalytic oxidizer (ID No. CD-RCO)

Pellet mill feed silo (ID No. ES-PMFS) with associated bin vent filter (ID No. CD-PMFS-BV)

Pellet coolers (ID Nos. ES-CLR-1 through ES-CLR-6) with associated cyclones (ID Nos. CD-CLR-1 through CD-CLR-4) in series with a regenerative catalytic oxidizer (ID No. CD-RCO) that can also operate as a regenerative thermal oxidizer

Fines bin (ID No. ES-FB) with associated bin vent filter (ID No. CD-FB-BV)

Finished product handling (ID No. ES-FPH), truck loadout bin (ID Nos. ES-TLB), and two pellet loadouts (ID Nos. ES-PL-1 and ES-PL-2) with associated bagfilter (ID No. CD-FPH-BF)

Pollutant	Limits/Standards	Applicable Regulation				
Particulate Matter	$E = 4.10 \text{ x } P^{0.67}$ for $P < 30 \text{ tph}$	15A NCAC 02D .0515				
	$E = 55 \text{ x } P^{0.11} - 40$ for $P \ge 30 \text{ tph}$					
	where, $E = allowable emission rate (lb/hr)$					
	P = process weight rate (tp)					
Sulfur Dioxide	CD-RCO only.	15A NCAC 02D .0516				
	2.3 pounds per million Btu					
Visible Emissions	20 percent opacity when averaged over a 6-minute period	15A NCAC 02D .0521				
Volatile Organic	Enforceable until all of the requirements from Section	15A NCAC 02Q .0317 for avoidance				
Compounds (VOC)	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .0530				
	met.					
	Less than 391.6 tons of VOC per consecutive 12-month period, See Section 2.2 A.1					
	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance				
	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 020 .0517 for avoidance				
	met.					
PM/PM10/PM2.5	Less than 250 tons per consecutive 12-month period,					
VOC	Less than 250 tons per consecutive 12-month period,					
NOx	Less than 250 tons per consecutive 12-month period,					
CO	Less than 250 tons per consecutive 12-month period					
	See Section 2.2 A.2					
Hazardous Air	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance				
Pollutants (HAP)	2.3 A, "Actions to be Taken by the Permittee", have been met.	of 15A NCAC 02D .1112 MACT				
	Less than 25 tons for combined HAPs per consecutive 12-					
	month period.					
	Less than 10 tons for each single HAP per consecutive 12-					
	month period.					
	See Section 2.2 A.3					
Particulate Matter	Enforceable until all of the requirements from Section	15A NCAC 02D .0614				
	2.3 A, "Actions to be Taken by the Permittee", have been					
	met.					
	Compliance Assurance Monitoring (ID No. ES-FB), (ID No. ES-CLB 1 through ES CLB5) (ID No. ES EPH					
	Nos. ES-CLR-1 through ES-CLR5), (ID Nos. ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2),					
	See Section 2.2 A.4					

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Compliance Assurance Monitoring (ID No. ES-FB), (ID	15A NCAC 02D .0614
	Nos. ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2),	
	See Section 2.2 A.5	
Toxic Air Pollutants	State-enforceable only15A NCAC 02D .1100Enforceable until all of the requirements from Section2.3 A, "Actions to be Taken by the Permittee", have been met.See Section 2.2 A.6500 - 1	
Toxic Air Pollutants	State-enforceable only Enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. See Section 2.2 A.7	15A NCAC 02D .1100
Toxic Air Pollutants	State-enforceable only See Section 2.2 A.8	15A NCAC 02Q .0711
Odorous Emissions	State-enforceable only15A NCAC 02D .1806See Section 2.2 A.9153 NCAC 02D .1806	
Fugitive Dust	State-enforceable only See Section 2.2 A.10	15A NCAC 02D .0540

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

a. Emissions of particulate matter from these sources (**ID No. ES-DSHM, ES-DWDS, ES-CLR-1 through ES-CLR-6**, **ES-FB, ES-FPH, ES-TLB, ES-PL-1**, and **ES-PL-2**) shall not exceed an allowable emission rate as calculated by the following equation:

$$\begin{split} & E = 4.10 \ x \ P^{\ 0.67} & \mbox{for } P < 30 \ tph \\ & E = 55 \ x \ P^{0.11} - 40 & \mbox{for } P \ge 30 \ tph \end{split}$$

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. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall test the outlet of the regenerative catalytic oxidizer (ID Nos. CD-RCO) for total suspended particulate (TSP) in accordance with a testing protocol approved by the DAQ. Testing shall be completed within 180 days of commencement of operation of the regenerative catalytic oxidizer and the results submitted within 30 days of completion of the test unless an alternate date is approved by the DAQ. Testing shall be conducted as specified in Section 2.2 A.2.d. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

c. A notification of the actual date of initial startup of the new source (**ID No. CLR-6**) and new control devices (**ID No. CD-CLR-4 and CD-RCO**) shall be postmarked within 15 days after such date.

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

- d. Particulate matter emissions shall be controlled as follows:
 - i. Particulate matter emissions from the pellet mill feed silo (**ID No. ES-PMFS**) shall be controlled by bin vent (**ID No. CD-PMFS-BV**);
 - Particulate matter emissions from the pellet coolers (ID Nos. ES-CLR-1 through CLR-6) shall be controlled by cyclones (ID Nos. CD-CLR-1 through CD-CLR-4) in series with a regenerative catalytic/thermal oxidizer (ID No. CD-RCO);
 - iii. Particulate matter emissions from the fines bin (**ID No. ES-FB**) shall be controlled by a bin vent filter (**ID No. CD-FB-BV**);
 - iv. Particulate matter emissions from finished product handling (ID No. ES-FPH), truck loadout bin (ID Nos. ES-TLB), and two pellet loadouts (ID No. ES-PL-1 and PL-2) shall be controlled by a bagfilter (ID No. CD-FPH-BF).
- e. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection units for leaks; and
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection of the cyclones, bagfilters, and regenerative catalytic/ thermal oxidizers' structural integrity; and
 - iii. an annual (for each 12-month period following the initial inspection) internal inspection of the heat transfer medium and associated inlet/outlet valves on the regenerative catalytic/ thermal oxidizer.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork, cyclones, bin vent filter, bagfilter, and regenerative catalytic/ thermal oxidizer are not inspected and maintained.

f. The Permittee may re-establish any parametric operating value during periodic testing. Compliance with previously approved parametric operating values is not required during periodic required testing or other tests undertaken to re-establish parametric operating values by the Permittee. Until parametric operating values have been established, the permittee shall operate the control device in accordance with the manufacturer's recommended values.

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

- g. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site for five years 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 devices; 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.

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

- h. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- i. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 C.1.e through g 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 Nos. CD-RCO**) 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 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of propane or natural

gas in the regenerative catalytic/thermal oxidizer (ID No. CD-RCO).

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

a. Visible emissions from these sources (ID No. ES-DSHM, ES-DWDS, ES-CLR-1 through ES-CLR-6, ES-FB, ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.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 month the Permittee shall observe the emission points of these sources (ID Nos. ES-DSHM, ES-DWDS, ES-FB, ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2) 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. For all new emission sources or control devices listed in the above table, the Permittee shall establish "normal" in the first 30 days following the commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monthly 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.3.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; or if "normal" is not established for these sources in the first 30 days of beginning operation.

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

- d. To ensure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. ES-CLR-1 through ES-CLR-6**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. For all new emission sources or control devices listed in the above table, the Permittee shall establish "normal" in the first 30 days following the commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the weekly 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.3.a above.

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required weekly 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; or if "normal" is not established for these sources in the first 30 days of beginning operation.

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

- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site for five years 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)]

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f. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 C.3.c through Section 2.1 C.3.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.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide Emission Sources

Pollutant	es a summary of limits and standards for the emission source(s) descr Limits/Standards	Applicable Regulation
VOC	Enforceable until all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
VOC	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .0530
	met.	01 1511 HERE 02D .0550
	Less than 391.6 tons per 12-month period	
	See Section 2.2 A.1	
	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .0530
	met.	
PM/PM10/PM2.5	Less than 250 tons per 12-month period,	
VOC	Less than 250 tons per 12-month period,	
NOx	Less than 250 tons per 12-month period,	
CO	Less than 250 tons per 12-month period.	
	See Section 2.2 A.2	
Hazardous Air	Enforceable after all of the requirements from Section	15A NCAC 02Q .0317 for avoidance
Pollutants (HAP)	2.3 A, "Actions to be Taken by the Permittee", have been	of 15A NCAC 02D .1112 MACT
	met.	
	Less than 25 tons for combined HAPs per 12-month	
	period.	
	Less than 10 tons for each single HAP per 12-month	
	period.	
Deutinulate Matter	See Section 2.2 A.3	154 NCAC 02D 0(14
Particulate Matter	Enforceable until all of the requirements from Section	15A NCAC 02D .0614
	2.3 A, "Actions to be Taken by the Permittee", have been	
	met.	
	Compliance Assurance Monitoring (ID No. ES-FB), (ID Nos. ES-CLR-1 through ES-CLR5), (ID Nos. ES-FPH,	
	ES-TLB, ES-PL-1, and ES-PL-2).	
	See Section 2.2 A.4	
Particulate Matter	Enforceable after all of the requirements from Section	15A NCAC 02D .0614
i alticulate iviation	2.3 A, "Actions to be Taken by the Permittee", have been	
	met.	
	Compliance Assurance Monitoring (ID No. ES-FB), (ID	
	Nos. ES-CLR-1 through ES-CLR6 via CD-RCO), (ID	
	Nos. ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2).	
	See Section 2.2 A.5	
Toxic Air Pollutants	State-enforceable only	15A NCAC 02D .1100
	Enforceable until all of the requirements from Section	
	2.3 A, "Actions to be Taken by the Permittee", have been	
	met.	
	Less than modeled emission rates.	
	Section 2.2 A.6	154 NGACOOD 1100
Toxic Air Pollutants	State-enforceable only	15A NCAC 02D .1100
	Enforceable after all of the requirements from Section	
	2.3 A, "Actions to be Taken by the Permittee", have been	
	met. Less than modeled emission rates.	
	Section 2.2 A.7	
Toxic Air Pollutants	State-enforceable only	15A NCAC 02Q .0711
TOAR AIL FUILUAILS	Less than toxic permitted emission rates	13A NCAC 02Q.0/11
	See Section 2.2 A.8	
	500 500001 2.2 A.0	

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

Pollutant	Limits/Standards	Applicable Regulation
Odor Emissions	State-enforceable only	15A NCAC 02D .1806
	odor control	
	See Section 2.2 A.9	
Fugitive Dust	State-enforceable only	15A NCAC 02D .0540
	Particulates from Fugitive Dust Emission Sources	
	See Section 2.2 A.10	

1. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. This permit condition is enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Until such time as this condition (Section 2.2 A.1) is no longer applicable, the facility remains classified as PSD major.
- b. In order to avoid applicability of 15A NCAC 02D .0530, as requested by the Permittee, facility-wide VOC emissions shall be less than 391.6 tons per consecutive 12-month period. To ensure compliance with the above limitations, the Permittee shall:
 - i. not process more than 420,480 oven-dried tons (ODT) of wood per year with an average maximum of 30% softwood from the wood-fired dryer system (**ID No. ES-DRYER**); and
 - ii. not process more than 357,408 ODT of wood per year with an average maximum of 30% softwood from the dry wood hammermill system (**ID No. ES-DHM-1 through ES-DHM-5**); and
 - iii. not process more than 481,800 ODT of pellets per year with an average maximum of 45% softwood from the pellet cooler system (**ID No. ES-CLR1 through ES-CLR5**).

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

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test indicates emissions are above the limits given in condition 2.2. A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- d. The Permittee shall record and maintain the following records in a logbook (written or electronic format) and make records available to DAQ personnel upon request.
 - i. The oven dried tons of pellets produced each month;
 - ii. The facility-wide emissions of VOC's calculated each month using the best available emissions factors (vendor certified compliance emission rates for emergency engines, performance stack test data, DAQ spreadsheets, EPA AP-42 emissions factors or other DAQ approved emission factors); and
 - iii. The oven dried tons of wood product throughput and the average softwood content of wood mixture processed in the dryer system (**ID No. ES-DRYER**), the hammermills (**ID Nos. ES-DHM-1 through ES-DHM-5**) and the pellet coolers (**ID Nos. ES-CLR1 through ES-CLR5**) shall be recorded monthly. The monthly documented softwood content of the wood mixture shall be equal to or less than the content used for the testing to derive the VOC emission factors.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not kept or the particulate emissions exceed the above limit in Section 2.2 A.1.b above.

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

- e. The Permittee shall submit a semi-annual summary report of monitoring and recordkeeping activities given in Section 2.2 A.1.d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly VOC emissions for the previous 17 months. The emissions must be calculated for each of the 12month rolling average over the previous 17 months.
 - ii. The monthly oven dried tons of wood product throughput and softwood content of wood mixture processed in the dryer system (**ID No. ES-DRYER**), the dry hammermills (**ID Nos. ES-DHM-1 through ES-DHM-5**) and the pellet coolers (**ID Nos. ES-CLR1 through ES-CLR5**).

2. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. This permit condition is enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Following the applicability of this condition (Section 2.2 A.2), the facility will be classified as PSD minor.
- b. In order to avoid applicability of 15A NCAC 02D .0530(g), facility-wide emission sources shall discharge into the atmosphere less than 250 tons of particulate matter, particulate matter with aerodynamic diameter less than 10 micrometers, particulate matter with aerodynamic diameter less than 2.5 micrometers, volatile organic compounds (VOC), nitrogen oxides (NOx), and carbon monoxide (CO) per consecutive 12-month period.
- c. To ensure compliance with the above limitations, the Permittee shall:
 - i. not process more than 550,000 oven-dried tons (ODT) of wood per year from the wood-fired dryer system (**ID No. ES-DRYER**) with a maximum of 100% softwood, on a rolling 12-month average basis;
 - ii. not produce more than 630,000 oven dried tons of pellets per year (ODT/year) with a maximum of 100% softwood, on a rolling 12-month average basis;
 - iii. control the green hammermills and wood dryer using wet electrostatic precipitator (**ID No. CD-WESP**) in series with regenerative thermal oxidizer (**ID No. CD-RTO**);
 - iv. control the dry wood hammermills with associated integral cyclones and dust control system (**ID No. ES-DCS**) in series with three (3) fabric filters (**ID Nos. CD-DHM-FF-1 through CD-DHM-FF-3**) in series with:
 - (A) a wood-fired direct heat drying system furnace (**ID No. ES-DRYER**) in series with wet electrostatic precipitator (**ID No. CD-WESP**) in series with a regenerative thermal oxidizer (**ID No. CD-RTO**); or
 - (B) a wet electrostatic precipitator (**ID No. CD-WESP**) in series with a regenerative thermal oxidizer (**ID No. CD-RTO**);

In the event of reduced furnace/dryer operation, a portion of the air flow from the bagfilters on the dry hammermills is ducted directly to the **CD-WESP** in series with the **CD-RTO**. In the event of the shutdown of the furnace/dryer system, all air flow from the bagfilters on the dry hammermills is ducted directly to the **CD-WESP** and **RTO**;

- v. control the dry shavings hammermill with associated integral cyclone (ID Nos. ES-DSHM) and dried wood day silo (ID Nos. ES-DWDS) by bin vent (ID No. DWDS) in series with a regenerative catalytic oxidizer (ID No. CD-RCO);
- vi. control the pellet coolers (**ID Nos. CD-CLR-1 through CD-CLR-6**) with cyclones (**CD-CLR-C1 through CD-CLR-4**) in series with a regenerative catalytic oxidizer (**ID No. CD-RCO**) that can also operate as a regenerative thermal oxidizer;

vii. at all times, including periods of startup, shutdown, and malfunction to the extent practicable, maintain and operate all emission sources including associated control devices in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the facility exceeds the limits in Section 2.2 A.2.a, b, or c.

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

- d. <u>Initial Performance Tests</u> Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall demonstrate compliance with PSD avoidance limits in Section 2.2 A.2.b above by conducting an initial performance test on the green hammermills (ID Nos. ES-GHM-1 through ES-GHM-4), the wood-fired direct heat drying system (ID No. ES-DRYER), the dry wood hammermills (ID Nos. ES-DHM-1 to ES-DHM-7), the dust control system (ID No. ES-DCS), the dry shavings hammermill (ID Nos. ES-DSHM), the dry wood day silo (ID Nos ES-DWDS), and the pellet coolers (ID Nos. ES-CLR-1 through ES-CLR-6). Initial testing shall be conducted in accordance with the following:
 - i. The pollutants and emission sources to be tested during the initial performance test are listed in the following table:

Emission Sources	Pollutants
Green hammermills ,dryer system, dry	VOC

Emission Sources	Pollutants
wood hammermills and dust control system controlled via oxidizer CD-RTO	PM/PM10/PM2.5
system controlled via oxidizer CD-KTO	NOx
	СО
Dry shavings hammermill, dry wood	VOC
day silo, and pellet coolers controlled via oxidizer CD-RCO	PM/PM10/PM2.5

- ii. The Permittee shall utilize EPA reference methods contained in 40 CFR 60, Appendix A, 40 CFR Part 63, and OTM 26 and in accordance with a testing protocol (using testing protocol submittal form) approved by the DAQ.
- iii. The Permittee shall submit a protocol to DAQ at least 45 days prior to initial compliance testing and shall submit a notification of initial compliance testing at least 15 days in advance of the testing.
- iv. The Permittee shall be responsible for ensuring, within practicable limits, that the equipment or processes being tested are operated at or near the maximum normal production rate or at a lesser rate if specified by the Director or his delegate.
- v. To the extent possible, testing shall be conducted at the maximum normal operating softwood percentage.
- vi. The regenerative thermal oxidizer and the regenerative catalytic/thermal oxidizer (**ID** Nos. CD-RTO and CD-RCO) are each comprised of multiple fireboxes, with each firebox containing two temperature probes. During the initial compliance test, the Permittee shall establish the minimum average firebox temperature for each firebox(s) comprising each regenerative thermal oxidizer/regenerative catalytic oxidizer (**ID** Nos. CD-RTO and CD-RTO and CD-RCO), and the minimum average firebox temperature (same as the inlet temperature of the catalyst) of the regenerative catalytic oxidizer/regenerative thermal oxidizer. "Average firebox temperature" means the average temperature of the two temperature probes in each firebox. The minimum average firebox temperature for each firebox shall be based upon the average temperature of the two temperature of the two temperature for each firebox shall be based upon the average firebox temperature for each firebox shall be submitted to the DAQ as part of the initial compliance test report.
- vii. Testing shall be completed within 180 days of commencement of operation of the new equipment unless an alternate date is approved in advance by DAQ.
- viii. The Permittee shall submit a written report of the test results to the Regional Supervisor, DAQ, no later than 30 days following sample collection in accordance with 15A NCAC 02D .2602(f), unless an alternative date is approved in advance by DAQ.

If the results of these tests are above the limits given in Section 2.2 A.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

- Periodic Performance Tests Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall demonstrate compliance with the PSD avoidance limits in Section 2.2 A.2.b above by conducting periodic performance tests on the green hammermills (ID Nos. ES-GHM-1 through ES-GHM-4), the wood-fired direct heat drying system (ID No. ES-DRYER), the dry hammermills (ID Nos. ES-HM-1 through ES-HM-7), the dust control system (ID No. ES-DCS), the dry shavings hammermill (ID Nos. ES-DSHM), the dry wood day silo (ID Nos ES-DWDS), and the pellet coolers (ID Nos. ES-CLR-1 through ES-CLR-6). Periodic testing shall be conducted in accordance with the following for all control option operating scenarios:
 - i. The pollutants and emission sources to be tested during the periodic performance tests are listed in the following table:

Emission Sources	Pollutants
Groon hommormilla davor	VOC
Green hammermills, dryer system, dry wood hammermills,	PM/PM10/PM2.5
and dust control system, controlled via oxidizer CD-RTO	NOx
	СО
Dry shavings hammermill, dry	VOC
wood day silo, and pellet coolers controlled via oxidizer CD-RCO	PM/PM10/PM2.5

- ii. The Permittee shall conduct periodic compliance testing in accordance with a testing protocol approved by the DAQ. Testing shall be conducted in accordance with Section 2.2 A.2.d.ii through Section 2.2 A.2.d.viii above.
- iii. The Permittee shall submit a protocol to DAQ at least 45 days prior to periodic compliance testing and shall submit a notification of periodic compliance testing at least 15 days in advance of the testing.
- iv. The Permittee shall be responsible for ensuring, within practicable limits, that the equipment or processes being tested are operated at or near the maximum normal production rate.
- v. To the extent possible, testing shall be conducted at the maximum normal operating softwood percentage.
- vi. The Permittee shall conduct periodic performance tests when the following conditions are met:
 - (A) The monthly average softwood content exceeds the average softwood percentage documented during prior performance testing by more than 10 percentage points, or
 - (B) The monthly production rate exceeds the average production rate documented during prior performance testing by more than 10 percentage points, or
 - (C) At a minimum testing shall be conducted annually. Annual performance tests shall be completed no later than 13 months after the previous performance test.
- vii. The Permittee shall notify the DAQ within 15 days when the conditions specified in Section 2.2 A.2.e.vi.(A) or (B) are met.
- viii. The Permittee shall conduct the periodic performance test and submit a written report of the test results to the DAQ within 90 days from the date the monthly softwood content or overall production rate increased as described in Section 2.2 A.2.e.vi(A) and (B) above, unless an alternate date is approved in advance by DAQ,
- ix. When periodic performance testing has occurred at 100 percent softwood and at 90 percent of the maximum permitted throughput, subsequent periodic performance testing shall occur on an annual basis and shall be completed no later than 13 months after the previous performance test. The Permittee shall submit a written report of the periodic performance test results to the Regional Supervisor, DAQ, no later than 30 days following sample collection in accordance with 15A NCAC 02D .2602(f), unless an alternative date is approved in advance by DAQ.
- x. The Permittee may request that the performance tests be conducted less often for a given pollutant if the performance tests for at least 3 consecutive years show compliance with each emission limit. If the request is granted, the Permittee shall conduct a performance test no more than 36 months after the previous performance test for the given pollutant.
- xi. If a performance test shows noncompliance with an emission limit for a given pollutant, the Permittee shall return to conducting annual performance tests (no later than 13 months after the previous performance test) for that pollutant.
- xii. Except as specified in Section 2.2 A.2.e.viii above, the Permittee shall submit a written report of results for any periodic performance test to the DAQ, not later than 30 days after sample collection, in accordance with 15A NCAC 02D .2602(f) unless an alternative date is approved in advance by DAQ.
- xiii. The Permittee may re-establish any parametric operating value during periodic testing. Compliance with previously approved parametric operating values is not required during periodic testing or other tests undertaken to re-establish parametric operating values by the Permittee.
- xiv. If the new parametric operating values re-established during periodic testing are more stringent, the Permittee shall submit a request to revise the value(s) in the permit at the same time the test report required pursuant to General Condition JJ is submitted and the permit revision will be processed pursuant to 15A NCAC 02Q .0514. If during performance testing, the new parametric operating values are less stringent, the Permittee may request to revise the value(s) in the permit pursuant to 15A NCAC 02Q .0515.

xv. The Permittee shall comply with applicable emission standards at all times, including during periods of testing. If the results of these tests are above the limits given in Section 2.2 A.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

- f. The Permittee shall install, calibrate, operate, maintain, and inspect a continuous temperature monitoring, and recording system, in accordance with manufacturer's recommendations for the regenerative thermal oxidizer and the regenerative catalytic/thermal oxidizer (**ID Nos. CD-RTO and CD-RCO**) to monitor the temperature in the combustion chamber. The facility shall ensure the 3-hour rolling average firebox temperature for each firebox does not drop below each firebox temperature established during the performance test.
- g. The Permittee shall develop and maintain a written malfunction plan for the temperature monitoring and recording system that describes, in detail, the operating procedures for periods of malfunction and a protocol to address malfunctions so that corrective actions can immediately be implemented. The malfunction plan shall identify malfunctions, as described by the manufacturer, and ensure the operators are prepared to correct such malfunctions as soon as practical. The Permittee shall keep any necessary parts for routine repairs of the temperature monitoring

and recording system readily available.

- h. The Permittee shall perform periodic inspection and maintenance for the oxidizers as recommended by the manufacturer. The Permittee shall perform periodic catalyst activity checks for the regenerative catalytic oxidizer as recommended by the manufacturer. At a minimum, the Permittee shall perform an annual (not to exceed 12-month) internal inspection of the primary heat exchanger and associated inlet/outlet valves of the control device to ensure structural integrity.
- i. To ensure compliance and effective operation of the wet electrostatic precipitator (**ID No. CD-WESP**), the Permittee shall perform inspections and maintenance as specified above in Section 2.1 A.1.i. The Permittee shall also maintain the minimum secondary voltage and minimum current of the wet electrostatic precipitator as specified above in Section 2.1 A.1.h.
- j. To ensure compliance and effective operation of the bagfilters and cyclones, the Permittee shall perform inspections and maintenance as specified above in Section 2.1 B.1.g and Section 2.1 C.1.e.
- k. The Permittee shall not process more than 550,000 oven-dried tons (ODT) from the dryer and 630,000 oven-dried tons (ODT) of pellets per year. The monthly pellet production in oven dried tons (ODT), the rolling 12-month total pellet production in ODT, monthly average softwood content, and 12-month rolling average softwood content shall be recorded monthly in a logbook kept on site. The results of the calculations and the total amount of facility-wide PM, PM10, PM2.5, VOC, NOx, and CO emissions shall be recorded monthly in a logbook (written or electronic format) and made available to an authorized representative upon request.
- 1. The Permittee shall install a time monitoring and recording system for the bypass hours on the dryer and furnace during startup, shutdowns, and malfunctions. The bypass hours for each source shall be recorded weekly in a logbook (written or electronic format) kept on-site and made available to an authorized representative upon request. The Permittee must develop and maintain a written malfunction plan for the time monitoring and recording system that describes, in detail, the operating procedures for periods of malfunctions.
- m. The Permittee shall calculate the total emissions of NOx, CO, VOC, and filterable PM monthly and shall record the emissions monthly in a logbook (written or electronic format) kept on-site and made available to DAQ personnel upon request.
 - i. Monthly NOx emissions, in tons, shall be calculated by the following equations and emission factors until sitespecific NOx emission factors are established through stack testing and approved by DAQ:

$$E_{\text{NOx (total)}} = \sum E_{\text{NOx (CD-RTO)}} + \sum E_{\text{NOx(CD-RCO)}} + \sum E_{\text{NOx (furnace bypass)}} + NOx Constant$$
Where:

$$E_{\text{NOx(Total)}} = \text{total tons of NOx emissions per month from the facility}$$

$$E_{\text{NOx(CD-RTO)}} = \text{total tons of NOx emissions from the outlet of the thermal regenerative oxidizer}$$

$$(\text{ID No. CD-RTO) \text{ per month}}$$

$$E_{\text{NOx(CD-RCO)}} = \text{total tons of NOx emissions from the outlet of the catalytic regenerative oxidizer} / regenerative thermal oxidizer (ID No. CD-RCO) per month$$

$$E_{\text{NOx(furnace bypass)}} = \text{total tons of NOx emissions from the furnace/dryer bypass (ID No. ES-FURNACEBYP) per month}$$

$$NOx \text{ Constant} = 0.52 = \text{monthly PTE tons of NOx from insignificant activity sources (emergency generator, fire water pump, double duct burners, and boilers)}$$

ii. Monthly VOC emissions, in tons, shall be calculated by the following equations and emission factors until sitespecific VOC emission factors are established through stack testing and approved by DAQ:

$$E_{\text{VOC (total)}} = \sum E_{\text{VOC (CD-RTO)}} + \sum E_{\text{VOC (CD-RCO)}} + \sum E_{\text{VOC (furnace bypass)}} + VOC \text{ Constant}$$

Where:		
Evoc(Total)	=	total tons of VOC emissions per month from the facility
Evoc(CD-RTO)	=	total tons of VOC emissions from the outlet of the thermal regenerative oxidizer
		(ID No. CD-RTO) per month
Evoc(CD-RCO)	=	total tons of VOC emissions from the outlet of the catalytic regenerative
		oxidizer / regenerative thermal oxidizer (ID No. CD-RCO) per month
Evoc(furnace bypass)	=	total tons of VOC emissions from the furnace/dryer bypass (ID No. ES-
		FURNACEBYP) per month
VOC Constant = 1.8	l =	monthly PTE tons of VOC from green wood handling, dry wood handling, and
		insignificant activity sources (emergency generator, fire water pump, bark hog,
		double duct burners, boilers, and diesel storage tanks)

iii. Monthly CO emissions, in tons, shall be calculated by the following equations and emission factors site-specific approved CO emission factors are established through stack testing:

$$E_{\rm CO(total)} = \sum E_{\rm CO(CD-RTO)} + \sum E_{\rm CO(CD-RCO)} + \sum E_{\rm CO(furnace bypass)} + CO \ Constant$$

Where:			
E _{CO(Total)}		=	total tons of CO emissions per month from the facility
E _{CO(CD-RTO)}		=	total tons of CO emissions from the outlet of the thermal regenerative oxidizer
			(ID No. CD-RTO) per month
E _{CO(CD-RCO)}		=	total tons of CO emissions from the outlet of the catalytic regenerative oxidizer /
			regenerative thermal oxidizer (ID No. CD-RCO) per month
Eco(furnace bypass)		=	total tons of CO emissions from the furnace/dryer bypass (ID No. ES-
			FURNACEBYP) per month
CO Constant	= 0.82	=	monthly PTE tons of CO from insignificant activity sources (emergency
			generator, fire water pump, double duct burners, and boilers)

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

- n. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- o. The Permittee shall submit a semiannual summary report of monitoring and recordkeeping activities given in Section 2.2 A.2.f through m above postmarked on or before January 30 of each calendar year for the preceding sixmonth period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly facility-wide PM, PM10, PM2.5, VOC, NOx, and CO emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months.
 - ii. The monthly and 12-month facility-wide total pellet production [as required in Section 2.2 A.2.k above].
 - iii. The monthly and 12-month rolling hardwood/softwood mix [as required in Section 2.2 A.2.k above].
 - iv. A report indicating and explaining all instances of the average minimum regenerative thermal oxidizer and regenerative catalytic oxidizer combustion chamber temperature falling below the minimum temperature range established during the performance test or noting that no such instances have occurred.
- p. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .1112: 112(g) Case-by-Case Maximum Available Control Technology (MACT) Standards

- a. This condition is enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Following the applicability of this condition (Section 2.2 A.3), the facility will be classified as HAP minor.
- b. In order to remain classified a minor source for hazardous air pollutants (HAP) and avoid applicability of 15A NCAC 02D .1112, "112(g) Case-by-Case Maximum Achievable Control Technology," facility-wide HAP emissions

shall be less than the following limitations:

- i. 25 tons per consecutive 12-month period of total, combined HAP; and
- ii. 10 tons per consecutive 12-month period of any individual HAP.

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

- c. <u>Initial Performance Tests</u> Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall establish emission factors for HAPs by conducting an initial performance test on the green hammermills (**ID Nos. ES-GHM-1 through ES-GHM-4**), the wood-fired direct heat drying systems (**ID No. ES-DRYER**), the dry hammermills (**ID Nos. ES-DHM-1 to ES-DHM-7**), the dust control system (**ID No. ES-DCS**), the dry shavings hammermill (**ID Nos. ES-DSHM**), the dry wood day silo (**ID Nos ES-DWDS**), and the pellet coolers (**ID Nos. ES-CLR-1 through ES-CLR-6**). Initial testing shall be conducted in accordance with the following:
 - i. The pollutants and emission sources to be tested during the initial performance test are listed in the following table:

Emission Source	Pollutants
Green hammermills, dryer system, dry wood hammermills, and dust control system, controlled via oxidizer CD- RTO	Acetaldehyde Acrolein Formaldehyde
Dry shavings hammermill, dry wood day silo, and pellet coolers controlled via cyclones and oxidizer CD-RCO	Methanol Phenol Propionaldehyde

ii. Initial testing shall be conducted in accordance with Section 2.2 A.2.d.ii through Section 2.2 A.2.d.viii above. If the results of these tests are above the limits given in Section 2.2 A.3.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1112.

- d. <u>Periodic Performance Tests</u> Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall establish emission factors for HAPs by conducting performance test on the green hammermills (ID Nos. ES-GHM-1 through ES-GHM-5), the wood-fired direct heat drying system (ID No. ES-DRYER), the dry hammermills (ID Nos. ES-DHM-1 to ES-DHM-7), the dust control system (ID No. ES-DCS), the dry shavings hammermill (ID Nos. ES-DSHM), the dry wood day silo (ID Nos ES-DWDS), and the pellet coolers (ID Nos. ES-CLR-1 through ES-CLR-6). Periodic testing shall be conducted in accordance with the following:
 - i. The pollutants and emission sources to be tested during the periodic performance testing are listed in the following table:

Emission Source	Pollutants
Green hammermills, dryer system,	
dry wood hammermills, and dust	Acetaldehyde
control system, controlled via	Acrolein
oxidizer CD-RTO	Formaldehyde
Dry shavings hammermill, dry wood	Methanol
day silo, and pellet coolers	Phenol
controlled via cyclones and	Propionaldehyde
oxidizer CD-RCO	

ii. Periodic testing shall be conducted in accordance with Section 2.2 A.2.e.ii through Section 2.2 A.2.e.xv above. If the results of these tests are above the limits given in Section 2.2 A.3.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1112.

e. The Permittee may update HAP emission factors established during periodic testing. If the new parametric operating values re-established during periodic testing are more stringent, the Permittee shall submit a request to revise the value(s) in the permit at the same time the test report required pursuant to General Condition JJ is submitted and the permit revision will be processed pursuant to 15A NCAC 02Q .0514. If during performance testing, the new parametric operating values are less stringent, the Permittee may request to revise the value(s) in the permit pursuant to 15A NCAC 02Q .0515.

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

- f. Monitoring and recordkeeping shall be performed in accordance with Section 2.2 A.2.g through Section 2.2 A.2.n above.
- g. The Permittee shall calculate HAP emissions from the regenerative thermal or catalytic/thermal oxidizers (**ID** No. **CD-RTO and CD-RCO**) using emission factors developed from the most recent stack tests.
- h. The Permittee shall calculate HAP emissions from the furnace bypass (ID Nos. ES-FURNACEBYP), the diesel-fired fire water pump (ID No. IES-FWP), the diesel-fired emergency generators (ID Nos. IES-EG), the duct burners (ID Nos. IES-DDB-1 and IES-DDB-2), the bark hog (ID No. IES-Bark), and the dry wood handling (ID Nos. ES-DWH) using HAP emission factors as provided in Air Permit Application No. 4600107.20A.
- i. Calculations of HAP emissions as specified in Section 2.2 A.3.g and Section 2.2 A.3.h above shall be made at the end of each month. Calculations and the total amount of HAP emissions shall be recorded monthly in a logbook (written or electronic format) and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1112 if the records are not maintained.

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

- j. The Permittee shall submit a semiannual summary report of monitoring and recordkeeping activities given in Section 2.2 A.3.f through Section 2.2 A.3.i 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 sixmonth period between January and June. The report shall summarize emissions of hazardous air pollutants containing the following:
 - i. greatest quantity in pounds of an individual hazardous air pollutant emitted:
 - (A) for each month during the semiannual period, and
 - (B) for each 12-month period ending on each month during the semiannual period using a 12-month rolling total.
 - ii. pounds of all hazardous air pollutants emitted:
 - (A) for each month during the semiannual period, and
 - (B) for each 12-month period ending on each month during the semiannual period using a 12-month rolling total.
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING

- a. This permit condition is enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met.
- b. The Permittee shall comply with 40 CFR Part 64 pursuant to 15A NCAC 02D .0614 and to ensure the sources in Section 2.2 A.4.c comply with the emission limits of 15A NCAC 02D .0515.

Background

c.

- **Emission Sources**
 - i. Fines bin (ID No. ES-FB),
 - ii. Five pellet coolers (ID Nos. ES-CLR-1 through ES-CLR5),
 - iii. Finished product handling, truck loadout bin, and two pellet loadout bins (ID Nos. ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2),
 - iv. Wood-fired direct heat drying system (ID No. ES-DRYER).
- d. Applicable Regulation, Emission Limit, and Monitoring Requirements
 - i. Regulation: 15A NCAC 02D .0515
 - ii. Emission limits:

Particulate matter emissions shall not exceed the following limits

 $\begin{array}{ll} E = 4.10 \ x \ P^{0.67} & \mbox{for process rates} \leq 30 \ \mbox{tons per hour, or} \\ E = 55.0 \ x \ P^{0.11} - 40 & \mbox{for process rates} > 30 \ \mbox{tons per hour} \end{array}$

Where: E = allowable emission rate in pound per hour

P =process weight rate in tons per hour

iii. Control Technology: bin vent filter, multicyclones, simple cyclone, bagfilter, wet electrostatic precipitator in series with an oxidizer

Monitoring Approach

- e. The key elements of the monitoring approach with the following control devices for particulate matter, including parameters to be monitored, parameter ranges, and performance criteria are presented in the following tables.
 - i. Fines bin vent filter (ID No. CD-FB-BV),
 - ii. Pellet cooler multicyclones (ID Nos. CD-CLR-C1 and CD-CLR-2),
 - iii. Pellet cooler simple cyclone (ID No. CD-CLR-C3),
 - iv. Finished product handling bagfilter (ID No. CD-FPH-BF)
 - v. Wet electrostatic precipitator (ID No. CD-WESP).

Measure	Indicator
I. Indicator	Visible emissions
Measuring approach	Visible emissions (VE) from each control device (ID Nos. CD-FB-BV, CD-CLR-1, CD-CLR-2, CD-CLR-3, and CD-FPH-BF) will be observed daily using EPA Reference Method 22-like procedures.
II. Indicator Range	An excursion is defined as the presence of visible emissions. Excursion triggers a demonstration of compliance with the 20 percent opacity standard in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes; `an inspection, corrective action, and a reporting requirement.
Quality Improvement Plan (QIP) threshold	The QIP threshold is five excursions occurring in a six-month reporting period
III. Performance Criteria	
Data Representativeness	Visible emissions shall be observed at the emissions point (control device exhaust).
Verification of Operational Status	N/A
QA/QC Practices and Criteria	The observer shall be familiar with EPA Reference Method 22 and follow Method 22-like procedures when VE is observed. Method 9 observations are conducted by a certified Reference Method 9 observer.
Monitoring frequency	A VE observation shall be performed daily, when operating.
Data Collection Procedures	The VE observation is recorded by the observer.
Averaging Period	N/A

Measure	Indicators for wood-fired direct heat drying system
I. Indicator	Secondary voltage and current for each grid
Measuring approach	Voltage and current indicator on each grid from control device (ID Nos. CD-WESP) will be recorded daily.
II. Indicator Range	An excursion occurs when the voltage and current measurement is less than the minimum indicator range or greater than the maximum indicator range. The excursion triggers corrective action and reporting requirement.
	Current indicator range for each grid: minimum 200m amps and maximum TBD amps.
	Voltage indicator range for each grid: minimum 20k volts and maximum TBD volts
Quality Improvement Plan (QIP) threshold	The QIP threshold is five excursions occurring in a six-month reporting period
III. Performance Criteria	
Data Representativeness	Current and voltage meters installed for each grid.
Verification of Operational Status	N/A
QA/QC Practices and Criteria	The current and voltage meters shall be maintained per manufacturers recommendations.
Monitoring frequency	A current and voltage observation for each grid shall be performed daily, when operating.
Data Collection Procedures	The current and voltage observation for each grid is recorded by the observer.
Averaging Period	N/A

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

- f. The Permittee shall comply with the recordkeeping requirements of 40 CFR 64.9(b) and 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. The reports shall comply with the reporting requirements of 40 CFR 64.9(a) and include, at a minimum, the following information, as applicable:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the Permittee shall include, in the next summary report, documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances.

5. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING

a. This permit condition is enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met.

b. The Permittee shall comply with 40 CFR Part 64 pursuant to 15A NCAC 02D .0614 to ensure to ensure the sources in Section 2.2 A.5.c comply with the emission limits of 15A NCAC 02D .0515.

Background

- c. Emission Units
 - i. Fines bin (ID No. ES-FB),
 - ii. Six pellet coolers (ID Nos. ES-CLR-1 through ES-CLR6),
 - iii. Finished product handling, truck loadout bin, and two pellet loadout bins (ID Nos. ES-FPH, ES-TLB, ES-PL-1, and ES-PL-2),
 - iv. Wood-fired direct heat drying system (ID No. ES-DRYER).
- d. Applicable Regulation, Emission Limit, and Monitoring Requirements
 - i. Regulation: 15A NCAC 02D .0515
 - Emission limits: Particulate matter emissions shall not exceed the following limits

 $\begin{array}{ll} E=4.10 \ x \ P^{0.67} & \mbox{for process rates} \leq 30 \ \mbox{tons per hour, or} \\ E=55.0 \ x \ P^{0.11}-40 & \mbox{for process rates} > 30 \ \mbox{tons per hour} \end{array}$

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

iii. Control Technology: bin vent filter, multicyclones/simple cyclones in series with an oxidizer, bagfilter, wet electrostatic precipitator in series with an oxidizer

Monitoring Approach

- e. The key elements of the monitoring approach with the following control devices for particulate matter, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.
 - i. Fines bin vent filter (ID No. CD-FB-BV),
 - ii. Pellet cooler multicyclones and simple cyclones (**ID Nos. CD-CLR-C1 through CD-CLR-4**) in series with a regenerative catalytic oxidizer (**ID No. CD-RCO**),
 - iii Finished product handling bagfilter (ID No. CD-FPH-BF),
 - iv. Wet electrostatic precipitator (**ID No. CD-WESP**) in series with a regenerative thermal oxidizer (**ID No. CD-RTO**).

Measure	Indicator
I. Indicator	Visible emissions
Measuring approach	Visible emissions (VE) from the outlet of each control device (ID Nos. CD-FB-BV, CD-RCO, CD-FPH-BF, CD-RTO) will be observed daily using EPA Reference Method 22-like procedures.
II. Indicator Range	An excursion is defined as the presence of visible emissions. Excursion triggers a demonstration of compliance with the 20 percent opacity standard in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes; an inspection, corrective action, and a reporting requirement.
Quality Improvement Plan (QIP) threshold	The QIP threshold is five excursions occurring in a six-month reporting period

Measure	Indicator
III. Performance Criteria	
Data Representativeness	Visible emissions shall be observed at the emissions point (control device exhaust).
QA/QC Practices and Criteria	The observer shall be familiar with EPA Reference Method 22 and follow Method 22-like procedures when VE is observed. Method 9 observations are conducted by a certified Reference Method 9 observer.
Verification of Operational Status	N/A
Monitoring frequency	A VE observation shall be performed daily, when operating.
Data Collection Procedures	The VE observation is recorded by the observer.
Averaging Period	N/A

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

- f. The Permittee shall comply with the recordkeeping requirements of 40 CFR 64.9(b) and 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. The reports shall comply with the reporting requirements of 40 CFR 64.9(a) and include, at a minimum, the following information, as applicable:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the Permittee shall include, in the next summary report, documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances.

State-enforceable only

6. TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT - The following emission limitations and requirements in this section are enforceable until all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limit shall not be exceeded.

Emission	Description	Acrolein Formald		Benzene	Phenol
Source ID	Description	lb/hr	lb/hr	lb/yr	lb/hr
ES-DRYER	Dryer System	2.74	5.94	3196	1.344
ES-DHM-1, ES-DHM-2	Hammermills 1&2	0.209	0.272	N/A	N/A
ES-DHM-3, ES-DHM-4	Hammermills 3&4	0.209	0.272	N/A	N/A
ES-DHM-5	Hammermill 5	0.105	0.136	N/A	N/A
IES-EG	Emergency Generator	2.27E-04	2.89E-03	1.14	N/A
IES-FWP	Firewater Pump	1.94E-04	2.48E-03	0.98	N/A
ES-CLR1, ES-CLR2	Pellet Cooler 1&2	0.366	0.274	N/A	N/A

Emission	Decerintian	Acrolein	Formaldehyde	Benzene	Phenol
Source ID	Description	lb/hr	lb/hr	lb/yr	lb/hr
ES-CLR3, ES-CLR4	Pellet Cooler 3&4 Cyclone	0.366	0.274	N/A	N/A
ES-CLR5	Pellet Cooler 5 Cyclone	0.183	0.137	N/A	N/A

Monitoring/Recordkeeping/Reporting

- a. To ensure compliance with the above limits, the Permittee shall keep documents on site demonstrating the actual emissions being less than the limits. The supporting documents may be previous permit applications, emissions inventories, previous dispersion modeling analysis or engineering calculations using pervious performance test results. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1100 if the records are not kept on site. No reporting is required.
- b. The Permittee has submitted a toxic air pollutant dispersion modeling analysis dated January 23, 2015 for the facility's toxic air pollutant emissions as listed in the above table. The modeling analysis was reviewed and approved by the AQAB on February 16, 2015. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analysis and should reflect any changes from the original analysis submittal as outlined in the AQAB review memo.

State-enforceable only

7. TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT

- a. The following conditions in this section are enforceable after all of the requirements from Section 2.3 A, "Actions to be Taken by the Permittee", have been met.
- b. Pursuant to 15A NCAC 02D .1100 and in accordance with the application for an air toxic compliance demonstration performed on a source-by-source basis, submitted with Application Nos. 4600107.20A, the following permit limits shall not be exceeded:

TOXIC AIR	UNITS	RTO	EG	FWP	FBYP	FBYP	DDB 1	DDB 2
POLLUTANTS					IDLE-	Cold		
(CAS NUMBER)					MODE	startup		
Acrolein (107-02-8)	lb/hour	1.5E+00	2.3E-03	1.5E-04	6.0E-02	1.0E-01	4.4E-08	4.4E-08
Arsenic and compounds	lb/year	1.8+E00	0.0E+00	0.0E+00	1.7E-01	2.9E-02	4.3E-03	4.3E-03
Benzene (71-43-2)	lb/year	3.2+E02	1.1E+00	7.6E-01	3.2E+01	5.5E+00	4.5E-02	4.5E-02
Cadmium (7440-43-9)	lb/year	6.9E-01	0.0E+00	0.0E+00	3.1E-02	5.4E-03	2.4E-02	2.4E-02
Chlorine	lb/hour	1.4E-01	0.0E+00	0.0E+00	1.2E-02	2.1E-02	0.0E+00	0.0E+00
(7782-50-5)	lb/day	3.3E+00			2.8E-01	5.0E-01		
Formaldehyde (50-00-0)	lb/hour	1.5E-01	2.9E-03	1.9E-03	6.6E-02	1.2E-01	1.8E-04	1.8E-04
Hexachlorodibenz o-p-dioxin (57653-85-7)	lb/year	1.2E+00	0.0E+00	0.0E+00	1.2E-02	2.1E-03	0.0E+00	0.0E+00
Hydrogen chloride (7647-01-0)	lb/hour	8.4E-01	0.0E+00	0.0E+00	2.9E-01	5.0E-01	0.0E+00	0.0E+00
Manganese & compounds	lb/day	3.4E-01	0.0E+00	0.0E+00	5.8E-01	1.0E+00	2.2E-05	2.2E-05
Phenol (108-95-2)	lb/hour	1.7E-02	0.0E+00	0.0E+00	7.7E-04	1.3E-03	0.0E+00	0.0E+00

TOWIGAND	THE	DCO	DOT 4	DOW A	
TOXIC AIR	UNITS	RCO	BOIL 1	BOIL 2	DWH
POLLUTANTS					
(CAS NUMBER)					
Acrolein	lb/hour	3.0E-01	8.7E-08	8.7E-08	0.0E+00
(107-02-8)					
Arsenic and	lb/year	3.4E-02	1.7E+00	1.7E+00	0.0E+00
compounds	•				
Benzene	lb/year	3.6E-01	1.8E-02	1.8E-02	0.0E+00
(71-43-2)	•				
Cadmium	lb/year	1.9E-01	0.0E+00	0.0E+00	0.0E+00
(7440-43-9)	-				
Chlorine	lb/hour	0.0E+00	0.0E+00	0.0E+00	0.0E+00
(7782-50-5)	lb/day	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Formaldehyde	lb/hour	2.2E-01	7.3E-04	7.3E-04	2.0E-02
(50-00-0)					
Hexachlorodibenzo	lb/year	0.0E+00	0.0E+00	0.0E+00	0.0E+00
-p-dioxin	-				
(57653-85-7)					
Hydrogen chloride	lb/hour	0.0E+00	0.0E+00	0.0E+00	0.0E+00
(7647-01-0)					
Manganese &	lb/day	1.8E-04	0.0E+00	0.0E+00	0.0E+00
compounds	-				
Phenol	lb/hour	4.5E-01	0.0E+00	0.0E+00	0.0E+00
(108-95-2)					

c. The Permittee has submitted a toxic air pollutant dispersion modeling analysis dated December 23, 2021 for the facility's toxic air pollutant emissions as listed in the above table. The modeling analysis was reviewed and approved by the AQAB on April 26, 2022. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analysis and should reflect any changes from the original analysis submittal as outlined in the AQAB review memo.

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

- d. To ensure compliance with 15A NCAC 02D .1100, the furnace/dryer bypass (**ID No. ES- FURNACEBYP**) shall be limited to no more than 50 hours per year for startups (for temperature control) and shutdowns. The furnace bypass shall be limited to a cold startup of 15% maximum heat input rate (or 26.3 million Btu per hour). The cold startup period begins when the wood-fired furnace is started up and lasts until the wood-fired furnace's refractory is heated to a temperature sufficient to sustain combustion operations at a minimal level or 8 hours, whichever is less. The use of diesel fuel as a startup accelerant shall be limited to 30 gallons per startup and 200 gallons per year. The Permittee shall keep the following:
 - i. To ensure compliance with the diesel fuel usage as an accelerant for cold startups, the Permittee shall record the gallons used for each cold startup and the gallons used per year in a logbook (written or electronic format) kept on-site and made available to an authorized representative upon request.
 - ii. The Permittee shall monitor and record the date, time, and duration that the furnace bypass is operated during startup and shutdown.
- e. To ensure compliance with 15A NCAC 02D .1100, the furnace/dryer bypass (**ID No. ES- FURNACEBYP**) in idle mode, defined as a maximum heat input of 15 million Btu per hour, shall be limited to no more than 500 hours per year. The Permittee shall monitor and record the date, time, and duration that the furnace bypass is operated during idle mode.

<u>Reporting</u> [15A NCAC 02Q .0508(f)]

f. The Permittee shall submit a semi-annual summary report of monitoring and recordkeeping activities given in Section 2.2 A.7.d through Section 2.2 A.7.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.

State-enforceable only

8. 15A NCAC 02Q .0711: EMISSION RATES REQUIRING A PERMIT

- a. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any Toxic Air Pollutant (TAP) listed in 15A NCAC 02Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 02Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TAP permitting emission rates (TPER) listed in 15A NCAC 02Q .0711 without first obtaining an air permit to construct or operate.
- b. PRIOR to exceeding any of the TPERs listed in 15A NCAC 02Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements found in 15A NCAC 02D .1100 "Control of Toxic Air Pollutants."
- c. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 02Q .0711.
- d. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 02Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Pollutant (CAS Number)	Carcinogens	Chronic Toxicants	Acute Systemic Toxicants	Acute Irritants
	(lb/yr)	(lb/day)	(lb/hr)	(lb/hr)
1,3 Butadiene (106-99-0)	11			
Acetaldehyde (75-07-0)				6.8
Arsenic and Inorganic arsenic	0.053			
compounds				
Benzo(a)pyrene (50-32-8)	2.2			
Beryllium (7440-41-7)	0.28			
Carbon tetrachloride (56-23-5)	460			
Chlorobenzene (108-90-7)		46		
Chloroform (67-66-3)	290			
Mercury, vapor (7439-97-6)		0.013		
Methyl ethyl ketone (78-93-3)		78		
Methylene chloride (75-09-2)	1600		0.39	
Nickel metal (7440-02-0)		0.13		
Pentachlorophenol (87-86-5)		0.063	0.0064	
Perchloroethylene	13000			
(tetrachloroethylene) (127-18-				
4)				
Polychlorinated biphenyls	5.6			
(1336-36-3)				
Styrene (100-42-5)			2.7	
Tetrachlorodibenzo-p-dioxin	0.00020			
(1746-01-6)				
Trichloroethylene (79-01-6)	4000			
Toluene (108-88-3)		98		14.4
Vinyl chloride (75-01-4)	26			
Xylene (1330-20-7)		57		16.4

State-enforceable only

9. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

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

State-enforceable only

10. 15A NCAC 02D .0540: PARTICULATES FROM FUGITIVE DUST EMISSION SOURCES

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall comply with all aspects of the most recent DAQ approved fugitive dust control plan.

2.3 Construction Schedule

The new pollution control devices are subject to the construction schedule described below.

- A. Actions to be Taken by the Permittee The Permittee shall comply with the following construction schedule:
 - 1. Within 12 months from permit issuance (10121T06), the Permittee shall purchase the new pollution control devices (**ID. Nos. CD-RTO, CD-RCO, and CD-CLR-4**);
 - 2. Within 24 months from permit issuance (10121T06), the Permittee shall begin installation of the new control devices (**ID. Nos. CD-RTO, CD-RCO, and CD-CLR-4**); and
 - Within 48 months from permit issuance (10121T06), the Permittee shall complete installation of new control devices (ID. Nos. CD-RTO, CD-RCO, and CD-CLR-4) and demonstrate initial compliance with 15A NCAC 02D .0515, .0521, .1100, 15A NCAC 02Q .0317 for avoidance of 15A NCAC 02D .0530, and 15A NCAC 02Q .0317 for avoidance of 15A NCAC 02D .1112 MACT.
- B. <u>Activity Reporting</u> No later than 30 calendar days after any date identified for accomplishment of any activity listed above, the Permittee shall submit written notice of what action was taken to the DAQ. If the action dates above are not met, the notice shall include an explanation of why the action date was not met, remedial action(s) taken, and a statement identifying the extent to which subsequent dates or times for accomplishment of listed activities may be affected.

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

Emission Source ID Nos.	Emission Source Description ^{1,2}
IES-DDB-1 and IES-DDB-2	Two natural gas/propane-fired low NOx double duct burners (each rated at 2.5 million Btu per hour)
IES-ADD	Additive handling and storage
IES-DRYSHAVE	Dry shaving handling and storage systems (no more than 100,000 oven dried tons per year)
IES-BARK	Electric powered bark hog (no more than 91,406 oven dried tons per year)
IES-GWFB	Green wood fuel storage bin
IES-TK-1 and IES-TK-2	Two diesel storage tanks (2,500 gallon and 500 gallon capacity)
IES-TK-3 and IES-TK-4	Two diesel storage tanks (600 gallon and 1,000 gallon capacity)
IES-EG NSPS IIII, GACT ZZZZ	Diesel-fired emergency generator (350 Horsepower)
IES-FWP NSPS IIII, GACT ZZZZ	Diesel-fired fire water pump (229 Horsepower)
IES-CNGT	Compressed natural gas terminal
IES-BOIL-1 and IES-BOIL-2	Two natural gas-fired low NOx boilers (each rated at 9.9 million Btu per hour)

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

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

SECTION 4 - GENERAL CONDITIONS (version 6.0, 01/07/2022)

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

A. General Provisions [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

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

B. Permit Availability [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

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

C. Severability Clause [15A NCAC 02Q .0508(i)(2)]

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

D. Submissions [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

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

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

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

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application. Permit 10121T06 Page 40

F. <u>Circumvention</u> - STATE ENFORCEABLE ONLY

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

G. Title V Permit Modifications

- 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.
- 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

- Reporting Requirements [15A NCAC 02Q .0508(f)] Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed. If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
- 2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
- 3. Off Permit Changes [15A NCAC 02Q .0523(b)]
 - The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
- 4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A <u>Reporting Requirements for Excess Emissions</u> [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

- <u>"Excess Emissions</u>" means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)
- 2. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
- 3. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

I.B <u>Reporting Requirements for Permit Deviations</u> [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

- 1. "<u>Permit Deviations</u>" for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.
- 2. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) quarterly by notifying the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.C Other Requirements under 15A NCAC 02D .0535

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

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

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

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

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

- c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
- d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- 4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.
- K. Permit Renewal [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration the permit expiration for facilities subject to 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. <u>Compliance Certification</u> [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA Compliance and Emissions Data Reporting Interface, CEDRI) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all terms and conditions in the permit (including emissions limitations, standards, or work practices), except for conditions identified as being State-enforceable Only. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

- 4. the method(s) used for determining the compliance status of the source during the certification period;
- 5. each deviation and take it into account in the compliance certification
- 6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

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

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

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

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

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

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

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

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

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

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

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

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

- 1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.
 Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

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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)]

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

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

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

EE. National Emission Standards Asbestos - 40 CFR Part 61, Subpart M [15A NCAC 02D .1110]

The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

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FF. Title IV Allowances [15A NCAC 02Q .0508(i)(1)]

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

GG. Air Pollution Emergency Episode [15A NCAC 02D .0300]

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

HH. Registration of Air Pollution Sources [15A NCAC 02D .0202]

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

II. Ambient Air Quality Standards [15A NCAC 02D .0501(c)]

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

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 02Q .0508(i)(16)]

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

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

Any test conducted by the Division of Air Quality using the appropriate testing procedures described in 15A NCAC 02D .2600 has precedence over all other tests.

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

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

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

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

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

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

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

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

- 1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
- 2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
- 3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (Air Permitting Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA Compliance and Emissions Data Reporting Interface (CEDRI),) in writing at least seven days before the change is made.
 - a. The written notification shall include:
 - i. a description of the change at the facility;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and

- iv. any permit term or condition that is no longer applicable as a result of the change.
- b. In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

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

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