



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

Beverly Eaves Purdue
Governor

B. Keith Overcash, P.E.
Director

Dee Freeman
Secretary

February XY, 2009

Mr. Jeffrey D. Fickett
Plant Manager
Weyerhaeuser NR Company
184 Gentry Road
Elkin, North Carolina 28621

Dear Mr. Fickett:

SUBJECT: **Air Quality Permit No. 05678T35**
Facility ID: 04/86/00108
Weyerhaeuser NR Company
Elkin Facility
Elkin, North Carolina
Surry County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for the significant modification of a Title V permit received January 27, 2009, we are forwarding herewith Air Quality Permit No. 05678T35 to Weyerhaeuser NR Company - Elkin Facility, 184 Gentry Road, Elkin, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the biofilter (ID No. 4301), Dryers (ID No. 1611 and 1621), wet electrostatic precipitator (ID No. 3450), suspension burners (ID Nos. 3811, 3821, and 3831) and the tongue and groove (ID No. B2811) on or before 12 months after commencing operation of any one of these sources.

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

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, North Carolina 27604
Phone: 919-715-6235 / FAX 919-733-5317 / Internet: www.ncair.org

One
North Carolina
Naturally

Mr. Fickett
March XYZ, 2009
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the attached permit reviews, understands, and abides by the conditions of the attached permit that are applicable to that particular emission source.

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

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

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

This Air Quality Permit shall be effective from March XYZ, 2009 until August 31, 2010, 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 Joseph Voelker, P.E., Environmental Engineer II at (919) 715-7218.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA Region 4
Winston-Salem Regional Office
Central Files

ATTACHMENT to cover letter to Air Quality Permit No. 05678T35

Table of Changes to Permit No. 05678T34

Condition No.	Changes
Cover letter	<ul style="list-style-type: none"> • Updated, dates and other relevant information for this particular modification • Left in the reminder statement to include TV permit applications as presented in cover letter for T34
Insignificant Activities List	<ul style="list-style-type: none"> • General formatting was updated
Table of Contents	<ul style="list-style-type: none"> • Added Section 2.4
Equipment List	<ul style="list-style-type: none"> • The asterisked language addressing the minor modifications made as a result of permit application no. 8600108.05D was removed. The permit issued as a result of the minor modification was permit no. T30. Given that these minor modifications will now be subject to public and EPA review as required for the submitted significant permit modification (app no. 8600108.09A) pursuant to 2Q.0504, the modifications made pursuant to permit application no. 8600108.05D will now be covered under the permit shield as described in general condition R.
2.1.A.7.u.	<ul style="list-style-type: none"> • The following language will be included in the revised permit. It was inadvertently removed during the permit modification resulting in the issuance of permit no. T33. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If the emission source(s) is not operating, a record of this fact along with the corresponding date and time shall substitute for the daily observation
2.2.B.1	<ul style="list-style-type: none"> • The PSD avoidance calculation for VOC was revised based on the current permit application and as described in the accompanying review.
2.2.C.	<ul style="list-style-type: none"> • Changed the MACT Subpart DDDD compliance date to October 1, 2008. The Permit inadvertently indicated it as October 1, 2009. The Permittee is subject to a Special Order of Consent (SOC) requiring full compliance with Subpart DDDD by October 1, 2009. The SOC only addresses the facilities compliance issues with the MACT for the emissions from the OSB Press. The SOC was added to the permit in Section 2.4.
2.2.D.4.	<ul style="list-style-type: none"> • Changed the MACT Subpart DDDD compliance date to October 1, 2008. See discussion for condition 2.2.C.
2.4.	<ul style="list-style-type: none"> • A schedule of compliance addressing the Special Order of Consent no. 2008-001 was included in the revised permit.
General Conditions	<ul style="list-style-type: none"> • Updated to version v.2.22.1. It was unclear if the General Conditions implemented in permit no. T33 reflected the current version

ATTACHMENT to Permit No. 05678T35

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

Emission Source Id. No.	Emission Source Description
I-SHT	Sawdust handling and transport
I-SS	Sawdust storage
I-WHFHO	Wet hog fuel handling operations
I-WHFSSO	Wet hog fuel storage operations
I-HIBDO	Hog infeed bypass dump operation
I-MSO	Mulch system operation
I-WFHO	Wet fuel hogging operation
I-BP	Bark pile
I-LMO	Log marking operation
I-WFS	Wet fuel silo
I-DWS	Dry waste silo
I-SDS	Sander dust silo
I-DWHB	Dry waste handling bin
I-TGFB	Three green flake bins
I-PBV	Press Building Vents
I-CT-1	Cooling Tower No.1
I-CT-2	Cooling Tower No.2
I-WCAD	Wet cell ash dump
I-PWO	Post wet operations
I-SO	Stencil operations
I-LYSP	Log yard settling pond
I-SFTL	Sanderdust/dry fines truck loading
I-PTL	Peerless truck loading
I-SWSP	Storm water settling pond
I-TOSEG	Thermal Oil System Emergency Generator
I-2900-300 (MACT Subpart DDDD)	Touch-up Paint Booth
I-2911-100 (MACT Subpart DDDD)	Multi-size Autospray Edgeseal Unit
I-2252-100 (MACT Subpart DDDD)	Backup Autospray Paint Booth
I-2243 (MACT Subpart DDDD)	Backup Paint-O-Matic Unit
I-STAMP	Two (2) Board-grade Stamping Operations
I-FRB	Flake Reclaim Bin
I-FL-RE	Flake Recovery System
I-MMA	Miscellaneous Maintenance Activities
I-PST	Propane Storage Tanks < 1,450 gallon capacity each
I-GST	Gasoline Storage Tank, 280 gallon capacity
I-4030-100	Diesel fuel storage tank - 75,000 gallons capacity
I-4011-100	Resin Storage Tank - 20,758 gallons capacity
I-4012-100	Resin Storage Tank - 20,758 gallons capacity

Emission Source Id. No.	Emission Source Description
I-4050-100	Wax Storage Tank - 20,758 gallons capacity
I-WTS	Wastewater Treatment System

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emissions Rates Requiring a Permit".

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



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
05678T35	05678T34	March XYZ, 2009	August 31, 2010

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

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

Permittee: **Weyerhaeuser NR Company**
Elkin Facility

Facility ID: **04/086/00108**

Facility Site Location: **184 Gentry Road**
City, County, State, Zip: **Elkin, Surry County, North Carolina 28621**

Mailing Address: **184 Gentry Road**
City, State, Zip: **Elkin, North Carolina 28621**

Application Number: **8600108.09A**
Complete Application Date: **January 27, 2009**

Primary SIC Codes: **2493**
Division of Air Quality,
Regional Office Address: **Winston-Salem Regional Office**
585 Waughtown Street
Winston-Salem, North Carolina 27107

Permit issued this the XYZth day of March, 2009

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

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(Including specific requirements, testing, monitoring, record keeping, and reporting requirements)
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ATTACHMENT

List of Acronyms

The Division of Air Quality (DAQ), the United States Environmental Protection Agency (EPA), and citizens as defined under the Federal Clean Air Act have the authority to enforce the terms, conditions, and limitations contained in the permit unless otherwise specified.

Under Title 15A NCAC 2Q, the operation of emission source(s) and associated air pollution control device(s) and appurtenances listed in this permit is based on plans, specifications, operating parameters, and other information as submitted in the Air Quality Permit Application.

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Dryers			
** 1611 PSD BACT MACT Subpart DDDD	Drum Dryer No. 1 (one rotary drum dryer for drying wet wood strands, 61,440 lbs/hour maximum wet wood drying capacity)	1611-150 **3450 3460	one simple cyclone (168 inches in diameter) one wet electrostatic precipitator (35,354 square feet of collection plate area) one regenerative oxidizer (RO) (Note: RO not subject to PSD BACT requirements)
**3811 PSD BACT	Suspension Burner No. 1 (one wood / kerosene/fuel oil/natural gas-fired/ burner 40 million Btu/hour maximum heat input, 60 million Btu/hour designed capacity)	N/A	
3311 PSD BACT MACT Subpart DDDD	Wet Cell No. 1 Primary Operating Mode - firing wood/alternative fuel at 25 million Btu per hour maximum heat input and firing kerosene/fuel oil/natural gas at 20 million Btu per hour maximum heat input	N/A	
3311 PSD BACT	Wet Cell No. 1 Alternative Operating Mode - when dryers are not operating (i.e., when operating in idle mode) firing wood/alternative fuel at 25 million Btu per hour maximum heat input and firing kerosene/ fuel oil /natural gas at 20 million Btu per hour maximum heat input	3340-100	one multicyclone (25 tubes, nine inches in diameter each)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
**1621 PSD BACT MACT Subpart DDDD	Drum Dryer No. 2 (one rotary drum dryer for drying wet wood strands, 61,440 lbs/hour maximum wet wood drying capacity)	1621-150 **3450 3460	one simple cyclone (168 inches in diameter) one wet electrostatic precipitator (35,354 square feet of collection plate area) one regenerative oxidizer (RO) (Note: RO not subject to PSD BACT requirements)
**3821 PSD BACT	Suspension Burner No. 2 (one wood/kerosene/fuel oil/ natural gas - fired burner, 40 million Btu/hour maximum heat input, 60 million Btu/hour designed capacity)	N/A	
3321 PSD BACT MACT Subpart DDDD	Wet Cell No. 2 Primary Operating Mode- firing wood/alternative fuel at 25 million Btu per hour maximum heat input and firing kerosene/fuel oil/natural gas at 20 million Btu per hour maximum heat input		
3321 PSD BACT	Wet Cell No. 2 Alternative Operating Mode - when dryers are not operating (i.e., when operating in idle mode) firing wood/alternative fuel at 25 million Btu per hour maximum heat input and firing kerosene/fuel oil/natural gas at 20 million Btu per hour maximum heat input	3340-200	one multicyclone (25 tubes, nine inches in diameter each)
1631 PSD BACT MACT Subpart DDDD	Drum Dryer No. 3 (one rotary drum dryer for drying wet wood strands 61,440 lbs/hour maximum permitted wet wood drying capacity)	1632-150 **3450 3460	one simple cyclone (168 inches in diameter) one wet electrostatic precipitator (35,354 square feet of collection plate area) one regenerative oxidizer (RO) (Note: RO not subject to PSD BACT requirements)
**3831 PSD BACT	Suspension Burner No. 3 (one wood/kerosene/fuel oil/ natural gas - fired burner 40 million Btu/hour maximum heat input, 60 million Btu/hour designed capacity)	N/A	

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
3331 PSD BACT NSPS MACT Subpart DDDD	Wet Cell No. 3 Primary Operating Mode - (firing wood/kerosene/fuel oil/natural gas/alternative fuel at 25 million Btu/hour maximum heat input)	N/A	
3331 PSD BACT NSPS	Wet Cell No. 3 Alternative Operating Mode - when dryers are not operating (i.e., when operating in idle mode) firing wood/kerosene/fuel oil/natural gas/alternative fuel at 25 million Btu/hour maximum heat input	3340-300	one multicyclone (35 tubes, eight inches in diameter each)
OSB Press			
4301 PSD BACT MACT Subpart DDDD	OSB Press	3470**	Biofilter
OSB Operation			
B2801 PSD BACT MACT Subpart DDDD	OSB operation consisting of woodroom, conversion, and finishing	2821-401 2803 2801	one simple cyclone (60 inches in diameter) one simple cyclone (126 inches in diameter) one bagfilter (9,187 square feet of filter area)
**B2811 PSD BACT MACT Subpart DDDD	OSB operation consisting of woodroom, conversion, and finishing	2035 2812 2814 2811	one simple cyclone (90 inches in diameter) one simple cyclone (114 inches in diameter) one simple cyclone (180 inches in diameter) one bagfilter (9,187 square feet of filter area)
B2831 PSD BACT MACT Subpart DDDD	OSB operation consisting of woodroom, conversion, and finishing	2813 2821-301	one simple cyclone (90 inches in diameter) one simple cyclone (60 inches in diameter)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
		2832	one simple cyclone (84 inches in diameter)
		2831	one bagfilter (2,668 square feet of filter area)
B2841 PSD BACT MACT Subpart DDDD	one wood sander operation	2842	one simple cyclone (150 inches in diameter)
		2841	one bagfilter (4,801 square feet of filter area)
B2807 PSD BACT MACT Subpart DDDD	OSB operation consisting of woodroom, conversion, and finishing	2804	one simple cyclone (192 inches in diameter)
		2807	one bagfilter (6,040 square feet of filter area)
B2627 PSD BACT MACT Subpart DDDD	OSB operation consisting of woodroom, conversion, and finishing	2617	one simple cyclone (180 inches in diameter)
		2627	one bagfilter (7,864 square feet of filter area)
Engines and Generator			
5000-100 PSD BACT	one diesel/kerosene-fired fire water pump engine, (290 horsepower)	N/A	None
1100-306 PSD BACT MACT Subpart ZZZZ	one diesel/kerosene fired wood yard hog engine, (750 horsepower)	N/A	None
4763-100 PSD BACT MACT Subpart ZZZZ	one diesel/kerosene fired standby generator engine (760 horsepower)	N/A	None
Debarking Units			
1414	Debarking	N/A	None
1134	Debarking	N/A	None
Log Yard			
1100-100	Logs stored in log yard	N/A	None

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Waste Water Treatment System			
3-WP	3 Wastewater Ponds	N/A	None
13-SA	13 Spray Areas	N/A	None
3-SA	3 Spray Areas	N/A	None

** These emission sources and control device (ID Nos. 3470, 1611, 1621, 3450, 3811, 3821, 3831 and B2811) are listed as a 15A NCAC 2Q .0501(c)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Dryers and associated Burners:

Drum Dryer No. 1 (ID No. 1611)

Drum Dryer No. 2 (ID No. 1621)

Drum Dryer No. 3 (ID No. 1631)

Suspension Burner No. 1 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3811)

Suspension Burner No. 2 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3821)

Suspension Burner No. 3 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3831)

Wet Cell No. 1 -Wood/Natural Gas/ No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3311)

Wet Cell No. 2 -Wood/ Natural Gas/ No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3321)

Wet Cell No. 3 -Wood/ Natural Gas/ No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3331) NSPS

The following table provides a summary of limits and/or standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
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Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	<p><i>*AOS - firing natural gas, oil, kerosene and or alternative fuels only</i></p> $E = 1.090 Q^{-0.2594}$ <p>where:</p> <p>E = allowable emission rate in pounds per million Btu heat input Q = maximum heat input in million Btu per hour for combustion of fuels other than wood</p> <p>for Q = 65 million Btu per hour E = 0.369 pounds per million Btu heat input</p> <p>Affected emission units:</p> <p>Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)</p>	15A NCAC 2D .0503 (c)
Particulate Matter	<p><i>*POS - firing wood only and/or alternative fuels and/or natural gas/kerosene/oil</i></p> $E = \frac{[(0.447)(Q_w) + (0.369)(Q_o)]}{(Q_w + Q_o)}$ pounds per million Btu <p>where:</p> <p>E = allowable emission rate in pounds per million Btu heat input Q_w = actual wood or wood products heat input rate in Btu/hr Q_o = actual oil and/or alternative fuels heat input rate in Btu/hr</p> <p>Affected emission units:</p> <p>Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)</p>	15A NCAC 2D .0504 (c) and (f)
Particulate Matter	$E = 55.0 P^{0.11} - 40$ <p>where;</p> <p>E = allowable emission rate in pounds per hour P = process weight in tons per hour</p> <p>Affected emission units:</p> <p>Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631)</p>	15A NCAC 2D .0515

Regulated Pollutant	Limits/Standards	Applicable Regulation
	Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821) Suspension Burner No. 3 (ID No. 3831)	
Sulfur Dioxide	2.3 pounds per million Btu heat input Affected emission units: Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821) Suspension Burner No. 3 (ID No. 3831) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Regenerative oxidizer (ID No. 3460)	15A NCAC 2D .0516(a)
Visible Emissions	20 percent opacity	15A NCAC 2D .0521(d)
Sulfur Dioxide	0.5 lbs per million Btu heat input or sulfur in fuel limit of 0.5 weight percent sulfur. Affected emission units: Wet Cell No. 3 (ID No. 3331)	15A NCAC 2D .0524 (40 CFR 60.40c, Subpart Dc -Standards of Performance for Small Industrial-Commercial- Institutional Steam Generating Units (60.40c- -60.48c))
Carbon Monoxide	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitation for CO shall not be exceeded: 498.3 lb/hr, daily divided by operating hours per day averaging period (Note: Before RO control emission rate)	15A NCAC 2D .0530
Nitrogen Oxides	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitation for NO _x shall not be exceeded: 33.44 lb/hr, 12-month rolling averaging period (Note: Before RO control emission rate)	15A NCAC 2D .0530
Particulate Matter	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations for PM/PM ₁₀ shall not be exceeded: 40.3 lb/hr, 24-hour averaging period (Note: Before RO control emission rate) Affected emission units: Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631) Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821)	15A NCAC 2D .0530

Regulated Pollutant	Limits/Standards	Applicable Regulation
	<p>Suspension Burner No. 3 (ID No. 3831) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)</p> <p>11.17 lb/hr each, 24-hour averaging period (Note: Wood combustion emission rate during alternative operating mode when operating in idle run mode) 7.38 lb/hr (Wet Cell No. 1) and 9.23 lb/hr (Wet Cell No. 3), 24-hour averaging period (Note: Oil combustion emission rate during alternative operating mode when operating in idle run mode)</p> <p>Affected emission units: Wet Cell No. 1 (ID No. 3311) Wet Cell No. 3 (ID No. 3331)</p> <p>11.17 lb/hr, 24-hour averaging period (Note: Wood combustion emission rate during alternative operating mode when operating in idle run mode) 7.38 lb/hr, 24-hour averaging period (Note: Oil combustion emission rate during alternative operating mode when operating in idle run mode)</p> <p>Affected emission units: Wet Cell No. 2 (ID No. 3321)</p>	
Sulfur Dioxide	For PSD avoidance purposes, the facility wide affected emissions sources' permit limitations for SO ₂ shall not be exceeded. See Section 2.2.A.1	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Visible Emissions	<p>For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitation for opacity shall not be exceeded:</p> <p>20% opacity</p> <p>Affected emission units: Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631) Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821) Suspension Burner No. 3 (ID No. 3831) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)</p>	15A NCAC 2D .0530
Volatile Organic Compounds	<p>For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations for VOC shall not be exceeded:</p> <p>514.6 lb/hr as C, 12-month rolling averaging period (Note: Before RO control emission rate)</p>	15A NCAC 2D .0530

Regulated Pollutant	Limits/Standards	Applicable Regulation
	For PSD avoidance purposes, the facility wide affected emissions sources' permit limitations for VOC shall not be exceeded: See Section 2.2.B.1	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Hazardous Air Pollutants	Plywood and Composite Wood Products Manufacture MACT: See Section 2.2.C.1 Affected emission units: Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic Air Pollutants	Permit limits for toxic air pollutants shall not be exceeded. See Section 2.2 D.2; <u>State-enforceable only</u>	15A NCAC 2D .1100
Odors	Odorous emissions must be controlled. See Section 2.2 D.3; <u>State-enforceable only</u>	15A NCAC 2D .1806
Toxic Air Pollutants	Last MACT/air toxics demonstration. See Section 2.2.D.4; <u>State-enforceable only</u>	15A NCAC 2Q .0705
Toxic Air Pollutants	Toxic air pollutant emissions shall not exceed the 2Q .0711 levels unless ambient standards are not exceeded. See Section 2.2.D.5; <u>State-enforceable only</u>	15A NCAC 2Q .0711
Volatile Organic Compounds	Recordkeeping of VOCs emissions, hours of operation of control devices and OSB production. See Section 2.2.E. 1	15A NCAC 2Q .0317 for avoidance of 15A NCAC 2D .0530

*POS - Primary Operating Scenario, AOS - Alternative Operating Scenario. The Permittee, contemporaneously with making a change from one alternate operating scenario to another, shall record in a logbook (written or electronic format) the scenario under which it is operating. [15A NCAC 2Q .0508(p)]

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

Regulatory Requirements

- a. Emissions of particulate matter from the combustion of natural gas, kerosene, No. 2 oil or alternative fuels by the Wet Cell No. 1, Wet Cell No. 2, and Wet Cell No. 3 (**ID Nos. 3311, 3321, and 3331**) that are discharged from the wet cells into the atmosphere shall not exceed an allowable emission rate of **0.369 pounds per million Btu heat** [15A NCAC 2D .0503(c)]

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in Section 2.1. A.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

- c. No monitoring, record keeping, and reporting are required for the firing of natural gas, No. 2 oil, kerosene or alternative fuels.

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

Regulatory Requirements

- a. Emissions of particulate matter from the combustion of wood or wood products alone or in combination with alternative fuels and/or natural gas and/or oil and/or kerosene that are discharged from the wet cells into the atmosphere shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0504(c)]
- b. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0504]

$$E = \frac{[(0.447)(Q_w) + (0.369)(Q_o)]}{(Q_w + Q_o)} \text{ pounds per million Btu}$$

where: E = allowable emission rate in pounds per million Btu heat input
Q_w = actual wood or wood products heat input rate in Btu/hr
Q_o = actual natural gas, kerosene, No. 2 oil or alternative fuels heat input rate in Btu/hr

Testing [15A NCAC 02D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and 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 2D .0504. See additional particulate matter test requirements as per 2.1 A.7.i. below for the wet cells.

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

- d. See Section 2.1 A.7. for monitoring, recordkeeping, and reporting requirements. If the required records are not maintained as given in Section 2.1 A.7. below, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504.

3. 15A NCAC 2D .0515: PARTICULATE EMISSIONS FROM MISCELLANEOUS INDUSTRIAL PROCESSES

Regulatory Requirements

- a. Emissions of particulate matter from the Drum Dryer No. 1 Drum Dryer No. 2, Drum Dryer No. 3 , Suspension Burner No. 1, Suspension Burner No. 2, Suspension Burner No. 3 (**ID Nos. 1611, 1621, 1631, 3811, 3821, and 3831**) that are discharged into the atmosphere shall not exceed an allowable emission rate as calculated by the following equations: [15A NCAC 2D .0515(a)].

$$E = 4.10 \times P^{0.67} \quad \text{for units with process weight rate less than 30 tons per hour}$$

where:

E = allowable emission rate in pounds per hour calculated to three significant figures

P = process weight rate in tons per hour

Or

$$E = 55.0(P)^{-11} - 40 \quad \text{for units with process weight rates greater than 30 tons per hour}$$

where:

E = allowable emission rate in pounds per hour calculated to three significant figures

P = process weight rate in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight, **however, solid fuels charged to the suspension burners and wet cells are considered part of the process rate.**

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given in Section 2.1 A.3.a. above, for particulate matter, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

See additional particulate matter test requirements as per 2.1 A.7. below for the combined drum dryers, suspension burners, and wet cells.

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

- c. See Section 2.1 A.7 for monitoring, recordkeeping, and reporting requirements. If the required records are not maintained as given in Section 2.1 A.7. below, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

Regulatory Requirements

- a. Sulfur dioxide from the firing of wood, wood products, alternative fuels, natural gas, kerosene and fuel oil by the Suspension Burner No. 1, Suspension Burner No. 2, Suspension Burner No. 3, Wet Cell No. 1, Wet Cell No. 2, and Regenerative oxidizer (**ID No. 3811, 3821, 3831, 3311, 3321, and 3460**) shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516(a)].

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1A.4.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, record keeping, and reporting are required while firing these fuels.

5. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

Regulatory Requirements

- a. As required by 15A NCAC 2D .0521(d) "Control of Visible Emissions," visible emissions from sources manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period [15A NCAC 2D .0521(d)]. However, six minute averaging periods may exceed 20 percent opacity if
 - i. No six-minute period exceeds 87 percent opacity;
 - ii. No more than one six-minute period exceeds 20 percent opacity in any hour; and
 - iii. No more than four six-minute periods exceed 20 percent opacity in any 24-hour period
- b. Visible emissions from the dryers and wet cells shall not exceed the following limitations:

<u>Source</u>	<u>Emission Point ID No.</u>	<u>Pollutant</u>	<u>Opacity Limit</u>
Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631) Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821) Suspension Burner No. 3 (ID No. 3831) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)	3460-750	Visible Emissions	20%
Alternative Operating Mode when operating in idle mode			
Wet Cell No. 1 (ID No. 3311)	3319-100	Visible Emissions	20%
Wet Cell No. 2 (ID No. 3321)	3329-100	Visible Emissions	20%
Wet Cell No. 3 (ID No. 3331)	3340-000	Visible Emissions	20%

Testing [15A NCAC 02D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given in Section 2.1. A.5.a. or b. (above) for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. See Section 2.1 A.7 for monitoring, record keeping, and reporting requirements. If the required records are not maintained as given in Section 2.1 A.7. below, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

6. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units as promulgated in 40 CFR Part 60 (60.40c--60.48c))

Regulatory Requirements

- a. Under provisions of 40 CFR 60 Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and as specifically stated in 40 CFR 60.42c(d): "... no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur."
- b. As specifically stated in 40 CFR 60.42c(i): "The ... fuel oil sulfur limits ... under this section apply at all times, including periods of startup, shutdown, and malfunction."
- c. Terms used throughout this segment [Section 2.1. B.6.] are defined in the Clean Air Act as amended in 1990 and in 40 CFR 60.2 and 60.41c

Testing [15A NCAC 02D .2601]

- d. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501, the Test Methods and Procedures prescribed in 40 CFR 60.42c, and General Condition JJ. If the results of this test exceed the limit given in Section 2.1. A.6.a., (above), the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

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

- e. To ensure compliance, the Permittee shall monitor the sulfur content of the kerosene and fuel oil fired in Wet Cell No. 3 (**ID No. 3331**) using fuel oil supplier certification. Fuel oil supplier certifications shall be kept on file and include the following information:

- i. the name of the fuel oil supplier;
- ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 41c; and
- iii. a certified statement signed by the responsible official that the records of fuel oil supplier certification submitted represent all of the fuel oil fired during the period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of the oil is not monitored and recorded. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of the fuel oil exceeds 0.5 weight percent sulfur.

- f. In addition to any other recordkeeping requirements of the Environmental Protection Agency (EPA), the Permittee is required to maintain records as follows:

- i. the Permittee shall record and maintain records of the amounts of each fuel fired during each **month**; and
- ii. the record of the amounts of fuel fired during each **month** shall be made available to an authorized representative of DAQ upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the amounts of fuel fired during each **month** are not recorded.

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

- g. In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to **NOTIFY** the Regional Supervisor, Division of Air Quality, in **WRITING**, of the following:

- i. the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of when an affected facility is commenced, postmarked no later than thirty (30) days after such date;
- ii. the anticipated date of initial start-up of an affected facility, postmarked not more than sixty (60) days nor less than thirty (30) days prior to such date; and
- iii. the actual date of initial start-up of an affected facility, postmarked within fifteen (15) days after such date.

- h. Within thirty days after each semiannual period, the Permittee must submit in writing to the Regional Supervisor, Division of Air Quality, the sulfur content of the distillate oil fired in an affected facility. If fuel supplier certification is used to demonstrate compliance, fuel supplier certification shall include the following information:

- i. the name of the oil supplier;
- ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41(c); and
- iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the quarter;

- iv. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of the fuel oil exceeds 0.5 weight percent sulfur.

7. **15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

Regulatory Requirement

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) emission rates shall not be exceeded:

Source	Pollutants	Emission Limits
Drum Dryer No. 1 (ID No. 1611) Drum Dryer No. 2 (ID No. 1621) Drum Dryer No. 3 (ID No. 1631) Suspension Burner No. 1 (ID No. 3811) Suspension Burner No. 2 (ID No. 3821) Suspension Burner No. 3 (ID No. 3831) Wet Cell No. 1 (ID No. 3311) Wet Cell No. 2 (ID No. 3321) Wet Cell No. 3 (ID No. 3331)	PM/PM ₁₀	40.3 lbs/hr, 24-hour averaging period (Note: Before Control (RO) Emissions Rate)
	Volatile Organic Compounds	514.6 lbs/hr as C, 12-month rolling averaging period (Note: Before Control (RO) Emissions Rate)
	Visible emissions	20 percent opacity
	Carbon Monoxide	498.3 lbs/hr, daily divided by operating hours per day averaging period (Note: Before Control (RO) Emissions Rate)
	Nitrogen Oxides	33.44 lbs/hr, 12-month rolling averaging period (Note: Before Control (RO) Emissions Rate)
<u>Alternative Operating Mode when operating in idle run mode</u> Wet Cell No. 1 (ID No. 3311) Wet Cell No. 3 (ID No. 3331)	PM/PM ₁₀	11.17 lbs/hr each, 24-hour averaging period (Note: Wood combustion emission rate)
		7.38 lbs/hr (Wet Cell No. 1), 24-hour averaging period 9.23 lbs/hr (Wet Cell No. 3), 24-hour averaging period (Note: Oil combustion emission rate)
	Visible emissions	20 percent opacity
<u>Alternative Operating Mode when operating in idle run mode</u> Wet Cell No. 2 (ID No. 3321)	PM/PM ₁₀	11.17 lbs/hr, 24-hour averaging period (Note: Wood combustion emission rate)
		7.38 lbs/hr, 24-hour averaging period (Note: Oil combustion emission rate)
	Visible emissions	20 percent opacity

For Emissions of Carbon Monoxide, Nitrogen Oxides, and Volatile Organic Compounds

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, for emissions of carbon monoxide, nitrogen dioxides, and volatile organic compounds, the testing shall be performed in accordance with 40 CFR Part 60 Appendix A, Method 10, for carbon monoxide; 15A NCAC 2D .0501(c)(7), for nitrogen oxides; 15A NCAC 2D .0501(c)(17), for volatile organic compounds; and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.7.a., above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. To ensure compliance, the Permittee shall establish an inspection and maintenance schedule/checklist and perform such inspections and maintenance on suspension burners No. 1, 2, and 3 (**ID Nos. 3811, 3821, and 3831**) and the wet cells Nos. 1, 2, and 3 (**ID Nos. 3311, 3321, and 3331**). As a minimum, the inspection and maintenance program will include once per calendar month inspection of the burners, fans, and duct work for leaks and to ensure structural integrity. In addition, the Permittee shall perform maintenance and cleaning at least once per year. The Permittee shall be deemed in noncompliance if the burners are not inspected, cleaned, and maintained.
- d. The results of inspection and maintenance for the suspension burners No. 1, 2, and 3 (**ID Nos. 3811, 3821, and 3831**) and the wet cells Nos. 1, 2, and 3 (**ID Nos. 3311, 3321, and 3331**) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the burners, fans, and duct work; and
 - iv. any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on suspension burners Nos. 1, 2, and 3 (**ID Nos. 3811, 3821, and 3831**) and the wet cells Nos. 1, 2, and 3 (**ID Nos. 3311, 3321, and 3331**) within 60 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and record keeping 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.

For Emissions of Particulate Matter

Testing [15A NCAC 02D .2601]

- g. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test are above the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Testing [15A NCAC 02D .2601]

- h. Under the provisions of NCGS 143-215.108, on July 27, 2006, the Permittee demonstrated compliance with the emission limits, above by testing (at the common stack after the wet ESP control device) the combined drum dryers Nos. 1, 2, and 3 (ID Nos. 1611, 1621, and 1631), the suspension burners Nos. 1, 2, and 3 (ID Nos. 3811, 3821, and 3831), and the wet cells Nos. 1, 2, and 3 (ID Nos. 3311, 3321, and 3331) when burning wood for particulate matter in accordance with a testing protocol approved by the DAQ. **The Permittee shall repeat the testing by July 27, 2016 or after 7,000 hours of emissions exiting the wet ESP stack since July 27 2006 test, whichever occurs first.** Details of the emissions testing and reporting requirements can be found in Section 3 - General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.7. , above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Testing [15A NCAC 02D .2601]

- i. Under the provisions of NCGS 143-215.108, **on September 25 and 26, 2006, the Permittee demonstrated compliance with the emission limits, above by testing wet cells Nos. 1 and 3 (ID Nos. 3311 and 3331) while operating in the Alternative Operating Mode when burning wood for particulate matter in accordance with a testing protocol approved by the DAQ. The Permittee shall repeat the demonstration by September 25, 2011 and every 5 years thereafter, by testing two of the wet cells Nos. 1 or 2, and 3 (ID Nos. 3311 or 3321 and 3331) while operating in the Alternative Operating Mode when burning wood for particulate matter in accordance with a testing protocol approved by the DAQ.** Details of the emissions testing and reporting requirements can be found in Section 3 - General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.7. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- j. Particulate matter emissions shall be controlled as follows:
Emissions from the following units shall be combined and controlled by a simple cyclone (**ID No. 1611-150**) in series with a wet electrostatic precipitator (**ID No. 3450**).
 - i. Drum Dryer No. 1 (**ID No. 1611**)
 - ii. Suspension Burner No. 1 (**ID No. 3811**)
 - iii. Wet Cell No. 1 (**ID No. 3311**)Emissions from the following units shall be combined and controlled by a simple cyclone (**ID No. 1621-150**) in series with a wet electrostatic precipitator (**ID No. 3450**).
 - i. Drum Dryer No. 2 (**ID No. 1621**)
 - ii. Suspension Burner No. 2 (**ID No. 3821**)
 - iii. Wet Cell No. 2 (**ID No. 3321**)Emissions from the following units shall be combined and controlled by a simple cyclone (**ID No. 1632-150**) in series with a wet electrostatic precipitator (**ID No. 3450**).
 - i. Drum Dryer No. 3 (**ID No. 1631**)
 - ii. Suspension Burner No. 3 (**ID No. 3831**)
 - iii. Wet Cell No. 3 (**ID No. 3331**)**Alternative Operating Mode** During times when dryers are not operational the particulate emissions from the Wet Cells shall be controlled as follows:
 - i. Particulate emissions from Wet Cell No. 1 (**ID No. 3311**) shall be controlled by a multi-cyclone (**ID No. 3340-100**).
 - ii. Particulate emissions from Wet Cell No. 2 (**ID No. 3321**) shall be controlled by a multi-cyclone (**ID No. 3340-200**).
 - iii. Particulate emissions from Wet Cell No. 3 (**ID No. 3331**) shall be controlled by a multi-cyclone (**ID No. 3340-300**).

For the cyclones (ID Nos. 1611-150, 1621-150, and 1632-150):

- k. To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance, which shall include the following:
 - i. once per calendar month external visual inspection of the cyclones, the system duct work, and the material collection unit for leaks.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the cyclones and duct work are not inspected and maintained.
- l. The results of inspection and maintenance for the cyclones shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the cyclones and duct work; and any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

For the multi-cyclones (ID Nos. 3340-100, 3340-200, and 3340-300):

- m. To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance, which shall include the following:
 - i. a once per calendar month external visual inspection of the multi-cyclones, the system duct work, and the material collection unit for leaks and
 - ii. a once per calendar year internal inspection of the multi-cyclone's structural integrity.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the multi-cyclones and duct work are not inspected and maintained.
- n. The results of inspection and maintenance of the multi-cyclones shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the multi-cyclones and duct work; and any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

For the wet electrostatic precipitator (ID No. 3450):

- o. To ensure compliance and effective operation of the wet electrostatic precipitator (ID No. 3450), the Permittee shall perform inspections and maintenance, which shall include the following:
 - i. once per calendar month external visual inspection of critical components of the wet electrostatic precipitator such as voltmeters, quench inlet temperature gauges, outlet temperature gauges, nozzles, pumps, and piping;
 - ii. a once per calendar month check for any equipment that does not generate an alarm in the turned-off state, to ensure it is switched on;
 - iii. a once per calendar month check for signs of plugging and buildup;
 - iv. a once per calendar month external visual inspection of the system ductwork and material collection unit for leaks and corrosion; and
 - v. a record of the total hours of operations when emissions exit the wet ESP stack shall be maintained to ensure testing is completed within the prescribed 7,000 hours of operation (or 10 years whichever occurs first).The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the wet electrostatic precipitator and ductwork are not inspected and maintained.
- p. The Permittee has established a **24 hour block average (minimum value)** excluding periods of start-up shutdown, and malfunctions for each parameter as per January 27, 2006 application for an administrative amendment. To ensure compliance and the effective operation of the wet electrostatic precipitator (ID No. 3450), the Permittee shall:
 - i. continuously monitor and electronically record the voltage and the current in the operating fields. These records shall be maintained on-site and made available to an authorized representative upon request. (A 2% monitor downtime shall be acceptable);
 - ii. the minimum 24-hour block averages excluding periods of start-up, shutdown, and malfunction are
Minimum Voltage = 10 kilovolts (kV)
Minimum Current = 120 milliamperes (mA); and
 - iii. inspect the wet electrostatic precipitator (ID No. 3450) within the same monitoring period for malfunctions and repair as necessary if voltages are less than the minimum value.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if:
 - iv. the voltage and current readings are not recorded, excluding periods of startup, shutdown and malfunction;
 - v. the voltage and current falls below the minimum value established in Section 2.1 A.7.p.ii., above;
 - vi. the voltage and current monitoring devices are not maintained (A 2% monitor downtime shall be acceptable); or
 - vii. inspections and necessary repairs are not performed during the same monitoring period as a result of an observation of voltages less than the minimum value.
- q. The results of inspection and maintenance activities, discussed above for the wet electrostatic precipitator (ID No. 3450), shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative of DAQ upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;

- ii. the results of each inspection;
- iii. the causes for any voltage readings that are less than the **minimum value** voltage for the wet electrostatic precipitator; and corrective actions taken.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

- r. The Permittee shall submit the results of any maintenance performed on the cyclones (**ID Nos. 1611-150, 1621-150, and 1632-150**), the multi-cyclones (**ID Nos. 3340-100, 3340-200, and 3340-300**), and the wet electrostatic precipitator (**ID No. 3450**) within 60 days of a written request by the DAQ.
- s. The Permittee shall submit a summary report of monitoring and record keeping 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.

For Visible Emissions

Testing [15A NCAC 02D .2601]

- t. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- u. To ensure compliance, the Permittee shall observe, on a daily basis, the emission points for the dryers and wet cells for any visible emissions above normal. After construction or modification of the each of the sources and associated stacks and after establishing "normal"; the Permittee shall observe once per day the emission points for the wet cells (**Stack ID Nos. 3319-100, 3329-100, 3340-100, 3450-500, and 3460-750**). The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. **The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If the emission source(s) is not operating, a record of this fact along with the corresponding date and time shall substitute for the daily observation.** The Permittee shall reestablish "normal" for the dryers in the first 30 days following the operation of the replaced dryers ID (No. 1611 and 1621) If visible emissions from the emission points are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A. 7. a., above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530.
- v. The results of the monitoring for visible emissions shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting which stack(s) was observed and those sources with emissions that were observed to be above normal or in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

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

8. **ALTERNATIVE OPERATING SCENARIOS** [15A NCAC 2Q .0508(p)] (for the regulations 15A NCAC 2D .0503 and 15A NCAC 2D .0504)
The Permittee, contemporaneously with making a change from one alternate operating scenario to another, shall record in a logbook (written or electronic format) the scenario under which it is operating. [15A NCAC 2Q .0508(p)]

B. Oriented Strand Board (OSB) Press (ID No. 4301) controlled by Biofilter (3470).

The following table provides a summary of limits and/or standards for the emission unit described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible Emissions	20 percent opacity	15A NCAC 2D .0521(d)
Particulate Matter Volatile Organic Compounds Visible Emissions	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded: 11.71 lb/hr PM/PM ₁₀ , 24-hour averaging period 99.44 lb/hr VOC, 12-month rolling averaging period 20% opacity 450,000,000 square feet equivalent (3/8 inch basis at 42 pounds per cubic foot) per year	15A NCAC 2D .0530
Hazardous Air Pollutants	Plywood and Composite Wood Products Manufacture MACT: See Section 2.2.C.1	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Toxic Air Pollutants	Permit limits for toxic air pollutants shall not be exceeded. See Section 2.2 D.2; <u>State-enforceable only.</u>	15A NCAC 2D .1100
Odors	Odorous emissions must be controlled. See Section 2.2 D.3; <u>State-enforceable only</u>	15A NCAC 2D .1806
Toxic Air Pollutants	Last MACT/air toxics demonstration. See Section 2.2.D.4; <u>State-enforceable only</u>	15A NCAC 2Q .0705
Toxic Air Pollutants	Toxic air pollutant emissions shall not exceed the 2Q .0711 levels unless ambient standards are not exceeded. See Section 2.2.D.5; <u>State-enforceable only</u>	15A NCAC 2Q .0711
Volatile Organic Compounds	Recordkeeping of VOCs emissions, hours of operation of control device and OSB production. See Section 2.2.E. 1	15A NCAC 2Q .0317 for avoidance of 15A NCAC 2D .0530

1. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

Regulatory Requirements

- a. As required by 15A NCAC 2D .0521(d) "Control of Visible Emissions," visible emissions from the units involved in the production of oriented strand board manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period [15A NCAC 2D .0521(d)]. However, six minute averaging periods may exceed 20 percent opacity if:
- i. No six-minute period exceeds 87 percent opacity;
 - ii. No more than one six-minute period exceeds 20 percent opacity in any hour; and
 - iii. No more than four six-minute periods exceed 20 percent opacity in any 24-hour period

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521. Visible emissions shall not exceed the following limitations:

Source	Emission Point ID No.	Pollutant	Opacity Limit
OSB Press (ID No. 4301)	3350-000	Visible Emissions	20%

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

- c. See Section 2.1 B.2. for monitoring, record keeping, and reporting requirements.

2. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

Regulatory Requirement

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) emission rates and Oriented Strand Board production and operation limitations shall not be exceeded:

Source	Pollutants	Emission Limits	Production/Operation Limit
OSB Press (ID No. 4301)	PM/PM ₁₀	11.71 lbs/hour, 24-hour averaging period	Annual press production on the OSB press (ID No. 4301) shall be limited to 450,000,000 square feet equivalent on a 3/8 inch basis at 42 pounds per cubic foot
	Visible Emissions	20 percent opacity	NA
	Volatile Organic Compounds	99.44 lbs/hour, 12-month rolling averaging period	Annual press production on the OSB press (ID No. 4301) shall be limited to 450,000,000 square feet equivalent on a 3/8 inch basis at 42 pounds per cubic foot

For Emissions Particulate Matter and Volatile Organic Compounds

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test are above the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. To ensure compliance with the particulate matter and volatile organic compound emission limitations, the Permittee shall perform inspections and maintenance of the OSB press (ID No. 4301). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the source is not inspected and maintained.
- d. The results of inspection and maintenance for the OSB press (ID No. 4301) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed; and
 - iv. any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

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

For Visible Emissions

Testing [15A NCAC 02D .2601]

- f. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- g. To ensure compliance, the Permittee shall observe, on a once per calendar month basis, the emission points for the OSB press (**ID No. 4301** for any visible emissions above normal. After construction of the biofilter (ID No. 3470) and after establishing "normal"; the Permittee shall observe once per month the emission point for the OSB press (Stack ID No. 3350-000). The Permittee shall reestablish "normal" for the source in the first 30 days following the operation of the biofilter (ID No. 3470). If visible emissions from the emission points for the OSB press are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 B. 2. a. above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530.
- h. The results of the monitoring for visible emissions shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action; and
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be above normal or in noncompliance along with any corrective actions taken to reduce visible emissions.The Permittee shall be deemed in noncompliance 15A NCAC 2D .0530 if these records are not maintained.

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

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

For Production/Operation Limit

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

- j. To ensure compliance with the above BACT limit, annual press production for the OSB press (**ID No. 4301**) shall be limited to **450,000,000 square feet equivalent on a 3/8 inch basis at 42 pounds per cubic foot**. The Permittee shall maintain monthly records of the total amount of oriented strand board produced in a logbook (written or in electronic format). The total press production shall be calculated as follows:

$$\sum_{(i=1,n)} P_{ai} \times T_i^{3/8} \times D_i / 42 = P_t$$

Where:

- P_{ai} = actual gross production footage (MMSF) for different thickness/density combinations
- T_i = actual thickness (inch) for specific production run
- D_i = actual density (lb/ft³) for specific production run
- P_t = total normalized production at 3/8 inch and 42 lb/ft³

Such records shall indicate the amount of oriented strand board produced during the preceding month and the total amount of oriented strand board produced over the preceding 12 month period. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the oriented strand board production records are not recorded and maintained or the production limit is exceeded.

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

- k. By January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June, the following shall be reported to the Regional Supervisor, Division of Air Quality:
 - i. the annual production rate from press operation in square feet equivalent (3/8 inch basis at 42 pounds per cubic foot). The annual production rate must be calculated for each of the six twelve-month periods over the previous seventeen months.

C. OSB Operation:

- OSB Operation (ID No. B2801)**
- OSB Operation (ID No. B2811)**
- OSB Operation (ID No. B2831)**
- One Wood Sander Operation (ID No. B2841)**
- OSB Operation (ID No. B2807)**
- OSB Operation (ID No. B2627)**

The following table provides a summary of limits and/or standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	Adequate duct work and properly designed collectors	15A NCAC 2D .0512
Visible Emissions	20 percent opacity	15A NCAC 2D .0521(d)
Particulate Matter Visible Emissions	For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded. Note limits in Section 2.1 C.3	15A NCAC 2D .0530
Hazardous Air Pollutants	Plywood and Composite Wood Products Manufacture MACT. See Section 2.2.C.1.	15A NCAC 2D .1111 (40 CFR 63, Subpart DDDD)
Volatile Organic Compounds	Work Practice Standards. See Section 2.2.D.1.	15A NCAC 2D .0958
Toxic Air Pollutants	Permit limits for toxic air pollutants shall not be exceeded. See Section 2.2 D.2; State-enforceable only	15A NCAC 2D .1100
Odors	Odorous emissions must be controlled. See Section 2.2 D.3; State-enforceable only	15A NCAC 2D .1806
Toxic Air Pollutants	Last MACT/air toxics demonstration. See Section 2.2.D.4; State-enforceable only	15A NCAC 2Q .0705
Toxic Air Pollutants	Toxic air pollutant emissions shall not exceed the 2Q .0711 levels unless ambient standards are not exceeded. See Section 2.2.D.5; State-enforceable only	15A NCAC 2Q .0711

1. 15A NCAC 2D .0512: Particulates from Wood Products Finishing Plants

Regulatory Requirements

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

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

- b. See Section 2.1 C.3. for monitoring, record keeping, and reporting requirements.

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

Regulatory Requirements

- a. As required by 15A NCAC 2D .0521(d) "Control of Visible Emissions," visible emissions from units manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period [15A NCAC 2D .0521(d)]. However, six minute averaging periods may exceed 20 percent opacity if:
 - i. No six-minute period exceeds 87 percent opacity;
 - ii. No more than one six-minute period exceeds 20 percent opacity in any hour; and
 - iii. No more than four six-minute periods exceed 20 percent opacity in any 24-hour period

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given in Section 2.1 C.2. a. (above) for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. See Section 2.1 C.3. for monitoring, record keeping, and reporting requirements.

3. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

Regulatory Requirement

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) emission rates shall not be exceeded:

Source	Emission Point ID No.	Pollutants	Emission Limits
OSB Operation (ID No. B2801)	2801	PM/PM ₁₀	0.24 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity
OSB Operation (ID No. B2811)	2811	PM/PM ₁₀	0.347 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity
OSB Operation (ID No. B2831)	2831	PM/PM ₁₀	0.072 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity
One Wood Sander Operation (ID No. B2841)	2841	PM/PM ₁₀	0.138 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity
OSB Operation (ID No. B2807)	2807	PM/PM ₁₀	0.37 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity
OSB Operation (ID No. B2627)	2627	PM/PM ₁₀	0.212 lbs/hour, 24-hour averaging period
		Visible Emissions	20 percent opacity

For Emissions of Particulate Matter

Testing [15A NCAC 02D .2601]

- b. If testing is required for emissions of particulate matter, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test exceed the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping for Emissions of Particulate Matter [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions shall be controlled as follows:
- i. In OSB Operation (**ID No. B2801**), particulate emissions collected from the woodroom, conversion, and finishing shall be controlled by a simple cyclone (**ID No. 2821-401**) in series with a fabric filter (**ID No. 2801**); a simple cyclone (**ID No. 2803**) in series with a fabric filter (**ID No. 2801**).
 - ii. In OSB Operation (**ID No. B2811**), particulate emissions collected from the woodroom, conversion, and finishing shall be controlled by a simple cyclone (**ID No. 2814**) in series with a fabric filter (**ID No. 2811**); a simple cyclone (**ID No. 2035**) in series with a fabric filter (**ID No. 2811**); or a simple cyclone (**ID No. 2812**) in series with a fabric filter (**ID No. 2811**).
 - iii. In OSB Operation (**ID No. B2831**), particulate emissions collected from the woodroom, conversion, and finishing shall be controlled by a simple cyclone (**ID No. 2813**) in series with a fabric filter (**ID No. 2831**); a simple cyclone (**ID No. 2821-301**) in series with a fabric filter (**ID No. 2831**); or a simple cyclone (**ID No. 2832**) in series with a fabric filter (**ID No. 2831**).
 - iv. In Wood Sander Operation (**ID No. B2841**), particulate emissions collected from the sander shall be controlled by a simple cyclone (**ID No. 2842**) in series with a fabric filter (**ID No. 2841**).
 - v. In OSB Operation (**ID No. B2807**), particulate emissions collected from the woodroom, conversion, and finishing shall be controlled by a simple cyclone (**ID No. 2804**) in series with a fabric filter (**ID No. 2807**).
 - vi. In OSB Operation (**ID No. B2627**), particulate emissions collected from the woodroom, conversion, and finishing shall be controlled by a simple cyclone (**ID No. 2617**) in series with a fabric filter (**ID No. 2627**).

For the cyclones (**ID Nos. 2821-401, 2803, 2814, 2035, 2812, 2813, 2821-301, 2832, 2842, 2804, and 2617**):

- d. To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance which shall include the following:
- i. a once per calendar year internal inspection of the cyclone's structural integrity; and
once per calendar month external visual inspection of the cyclones, the system duct work, and the material collection unit for leaks.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the cyclones and duct work are not inspected and maintained.
- e. The results of inspection and maintenance for the cyclones shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the cyclones and duct work; and
any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

For the fabric filters (**ID Nos. 2801, 2811, 2831, 2841, 2807, and 2627**):

- f. To ensure compliance, the Permittee shall perform inspections and maintenance which shall include the following:
- i. a once per calendar year internal inspection of the fabric filters for deterioration; and
 - ii. a once per calendar month external visual inspection of the fabric filter system duct work and material collection units for deterioration, damage, and leaks.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the fabric filter and duct work are not visually inspected for deterioration.
- g. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the fabric filter; and
 - iv. any corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

- h. The Permittee shall submit the results of any maintenance performed on the cyclones (**ID Nos. 2821-401, 2803, 2814, 2035, 2812, 2813, 2821-301, 2832, 2842, 2804, and 2617**) and fabric filters (**ID Nos. 2801, 2811, 2831, 2841, 2807, and 2627**) within 60 days of a written request by the DAQ.
- i. The Permittee shall submit a summary report of monitoring and record keeping 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.

For Visible Emissions

Testing [15A NCAC 02D .2601]

- j. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- k. To ensure compliance, the Permittee shall observe, on a once per calendar month basis, the emission points for the dust collection systems (**ID Nos. B2801, B2811, B2831, B2841, B2807, and B2627**), for any visible emissions above normal. The Permittee shall reestablish "normal" for system (ID No. B2811) in the first 30 days following the replacement of the Tongue and Groove (T&G) machine of the system. If visible emissions from the emission points for the dust collection systems are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above normal emissions prior to the end of the once per calendar month monitoring period or
 - ii. demonstrate that the visible emissions from the emission points for the dust collection systems, in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes, are below 20 percent opacity.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0530.
- l. The results of the monitoring for visible emissions shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be
 - iii. above normal or in noncompliance along with any corrective actions taken to reduce visible emissions; and the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

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

D. Engines and Generator:
Fire Water Pump Engine (ID No. 5000-100)
Woodyard Hog Engine (ID No. 1100-306)
Standby Generator (ID No. 4763-100)

The following table provides a summary of limits and/or standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516(a)
Visible Emissions	20 percent opacity	15A NCAC 2D .0521(d)
Carbon Dioxide, Particulate Matter, Volatile Organic Compounds, Visible Emissions	<p>For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded:</p> <p>Fire Water Pump Engine (ID No. 5000-100): 0.5 pounds PM/PM₁₀ per hour, 24-hour averaging period 1.6 pounds CO per hour, daily divided by operating hours per day averaging period 0.6 pounds VOC per hour, 12-month rolling averaging period 20 percent opacity 500 hours per year of operation</p> <p>Woodyard Hog Engine (ID No. 1100-306): 1.3 pounds PM/PM₁₀ per hour, 24-hour averaging period 4.0 pounds CO per hour, daily divided by operating hours per day averaging period 1.5 pounds VOC per hour, 12-month rolling averaging period 20 percent opacity 2,600 hours per year of operation</p> <p>Standby Generator (ID No. 4763-100): 4,330 hours per year of operation</p>	15A NCAC 2D .0530
Hazardous Air Pollutants	<p>MACT-Subpart ZZZZ Reciprocating Internal Combustion Engines</p> <p>Affected emission units: Woodyard Hog Engine (ID No. 1100-306) Standby Generator (ID No. 4763-100)</p>	15A NCAC 2D .1111
Sulfur Dioxide	For PSD avoidance purposes, the facility wide affected emission sources' permit limitations for SO ₂ shall not be exceeded. See Section 2.2.A.1.	15A NCAC 2Q .0317 for 15A NCAC 2D .0530
Toxic Air Pollutants	Permit limits for toxic air pollutants shall not be exceeded. See Section 2.2.D.2; State-enforceable only	15A NCAC 2D .1100
Toxic Air Pollutants	Toxic air pollutant emissions shall not exceed the 2Q .0711 levels unless ambient standards are not exceeded. See Section 2.2.D.5; State-enforceable only	15A NCAC 2Q .0711

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

Regulatory Requirements

- a. Emissions of sulfur dioxide from the fire water pump engine (**ID No. 5000-100**), the standby generator (**ID No. 4763-100**), and the woodyard hog engine (**ID No. 1100-306**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516(a)].

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. See Section 2.2 A.1 for monitoring, record keeping, and reporting requirements.

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

Regulatory Requirements

- a. As required by 15A NCAC 2D .0521(d) "Control of Visible Emissions," visible emissions from sources manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period [15A NCAC 2D .0521(d)]. However, six minute averaging periods may exceed 20 percent opacity if
- i. No six-minute period exceeds 87 percent opacity;
 - ii. No more than one six-minute period exceeds 20 percent opacity in any hour; and
 - iii. No more than four six-minute periods exceed 20 percent opacity in any 24-hour period

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test exceed the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. See Section 2.1 D.3 for monitoring, record keeping, and reporting requirements for the fire water pump engine (**ID No. 5000-100**) and the woodyard hog engine (**ID No. 1100-306**).
- d. To ensure compliance, the Permittee shall observe, on a once per calendar month basis if the unit is operated during the calendar month, the emission point for the standby generator (**ID No. 4763-100**) for any visible emissions above normal. If visible emissions from the standby generator are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above normal emissions prior to the end of the once per calendar month monitoring period or
- ii. demonstrate that the visible emissions from the emission point for the standby generator, in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes, are below 20 percent opacity.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

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

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

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

3. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

Regulatory Requirement

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) emission rates and operation limitations shall not be exceeded:

Source	Pollutants	Emission Limits	Production/Operation Limit
Fire Water Pump Engine (ID No. 5000-100)	PM/PM ₁₀	0.5 lbs/hour, 24-hour averaging period	500 hours per consecutive twelve month period
	Carbon monoxide	1.6 lbs/hour, daily divided by operating hours per day averaging period	500 hours per consecutive twelve month period
	Volatile organic compounds	0.6 lbs/hour, 12-month rolling averaging period	500 hours per consecutive twelve month period
	Visible emissions	20 percent opacity	NA
Woodyard Hog Engine (ID No. 1100-306)	PM/PM ₁₀	1.3 lbs/hour, 24-hour averaging period	2,600 hours per consecutive twelve month period
	Carbon monoxide	4.0 lbs/hour, daily divided by operating hours per day averaging period	2,600 hours per consecutive twelve month period
	Volatile organic compounds	1.5 lbs/hour, 12-month rolling averaging period	2,600 hours per consecutive twelve month period
	Visible emissions	20 percent opacity	NA
Standby Generator (ID No. 4763-100)	N/A	N/A	4,330 hours per consecutive twelve month period

For Carbon Monoxide, Particulate Matter, Volatile Organic Compounds, and Operating Limit Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- b. To ensure compliance, the Permittee shall record the operating hours for the fire water pump engine (ID No. 5000-100), the woodyard hog engine (ID No. 1100-306), and the standby generator (ID No. 4763-100) by recording the monthly hours of operation for each unit in a logbook (written or electronic format). Such logbook shall be made available to an authorized representative of the DAQ upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the operating hours are not recorded.

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

- c. For compliance purposes, by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June, the following shall be reported to the Regional Supervisor, Division of Air Quality:

- i. the monthly operating hours for the fire water pump engine (**ID No. 5000-100**), the woodyard hog engine (**ID No. 1100-306**), and the standby generator (**ID No. 4763-100**). The operating hours must be calculated for each unit for each of the six twelve-month periods over the previous seventeen months.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the fire water pump engine (**ID No. 5000-100**) is operated more than 500 hours per consecutive twelve-month period. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the woodyard hog engine (**ID No. 1100-306**) is operated more than 2,600 hours per consecutive twelve-month period. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the standby generator (**ID No. 4763-100**) is operated more than 4,330 hours per consecutive twelve-month period.

For Visible Emissions

Testing [15A NCAC 02D .2601]

- d. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3. If the results of the test performed exceed the limits given above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- e. To ensure compliance, the Permittee shall observe, on a once per calendar month basis if the unit is operated during the calendar month, the emission points for the fire water pump engine (**ID No. 5000-100**) and the woodyard hog engine (**ID No. 1100-306**) for any visible emissions above normal. The Permittee shall establish "normal" for the source in the first 30 days following the effective date of the permit. If visible emissions from the emission points for the engines are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above normal emissions prior to the end of the once per calendar month monitoring period or
 - ii. demonstrate that the visible emissions from the emission point for the unit, in accordance with 15A NCAC 2D .0501(c)(8), are below 20 percent opacity.

If any corrective action under (i) above does not correct the above normal emissions prior to the end of the once per calendar month monitoring period, the facility will be deemed in non-compliance; if any demonstration under (ii) above exceeds the prescribed limit, the facility will be deemed in noncompliance.

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

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

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

4. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) 40 CFR PART 63 SUBPART ZZZZ

- a. For the wood hog engine and standby generator (**ID Nos. 1100-306 and 4763-100**), the Permittee shall maintain a record of the applicability determination per 63.10(b)(3), contained in Environmental Management Commission Standard 15A NCAC 2D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63 Subpart ZZZZ.

**E. Debarking and Log Storage:
Debarking (ID No. 1414)
Debarking (ID No. 1134)
Logs stored in log yard (ID No. 1100-100)**

The following table provides a summary of limits and/or standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible Emissions	20 percent opacity	15A NCAC 2D .0521(d)

1. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

Regulatory Requirements

- a. As required by 15A NCAC 2D .0521(d) "Control of Visible Emissions," visible emissions from sources manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period [15A NCAC 2D .0521(d)]. However, six minute averaging periods may exceed 20 percent opacity if
 - i. No six-minute period exceeds 87 percent opacity;
 - ii. No more than one six-minute period exceeds 20 percent opacity in any hour; and
 - iii. No more than four six-minute periods exceed 20 percent opacity in any 24-hour period

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test exceed the limit given above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To ensure compliance, the Permittee shall observe, on a once per calendar month basis, fugitive emissions from the debarking units (**ID Nos. 1134 and 1414**), and the log yard (**ID No. 1100-100**) for any visible emissions above normal. The Permittee shall establish "normal" for the source in the first 30 days following the effective date of the permit. If visible emissions from the debarking units or the log yard are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above normal emissions prior to the end of the once per calendar month monitoring period or
 - ii. demonstrate that the visible emissions from the emission point for the debarking units or the log yard, in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes are below 20 percent opacity.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

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

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

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

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Sources Subject to PSD Avoidance Condition for SO2

- Drum Dryer No. 1 (ID No. 1611)**
- Drum Dryer No. 2 (ID No. 1621)**
- Drum Dryer No. 3 (ID No. 1631)**
- Suspension Burner No. 1 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3811)**
- Suspension Burner No. 2 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3821)**
- Suspension Burner No. 3 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3831)**
- Wet Cell No. 1 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3311)**
- Wet Cell No. 2 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3321)**
- Wet Cell No. 3 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3331)**
- Firewater Pump (ID No. 5000-100)**
- Standby Generator (ID No. 4763-100)**
- Woodyard Hog Engine (ID No. 1100-306)**

The following table provides a summary of limits and standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur Dioxide	For PSD Avoidance Purposes: Sulfur dioxide emissions from the fuel combustion equipment shall be less than 40 tons per consecutive twelve (12) month period	15A NCAC 2D .0530

1. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

Regulatory Requirement

- a. To comply with this Permit and to avoid applicability of 15A NCAC 2D .0530, "Prevention of Significant Deterioration," as requested by the Permittee, sulfur dioxide emissions from the fuel combustion equipment shall be less than 40 tons per consecutive twelve (12) month period. [15A NCAC 2D .0530].

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 A.1.a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. The maximum sulfur content of any Diesel fuel, No. 2 fuel oil, or kerosene received and fired in the dryers and the engines shall not exceed 0.05 weight percent sulfur.
- d. The maximum number of gallons of Diesel fuel and No. 2 fuel oil, or kerosene fired in any consecutive twelve month period shall not exceed 7.5 million gallons.
- e. To ensure compliance, the Permittee shall monitor the sulfur content of the Diesel oil, No. 2 fuel oil, and kerosene by using fuel oil supplier certification. Fuel oil supplier certifications shall be kept on file and include the following information:
 - i. the name of the fuel oil supplier;

- ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 41c; and
- iii. a certified statement signed by the responsible official that the records of fuel oil supplier certification submitted represent all of the fuel oil fired during the period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the sulfur content of the oil is not monitored and recorded.

- f. In addition to any other recordkeeping requirements of the Environmental Protection Agency (EPA), the Permittee shall record and maintain records of the amounts of fuel oil/kerosene fired during each month. The record of the amounts of fuel fired during each month shall be made available to an authorized representative of DAQ upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amounts of fuel oil/kerosene fired during each month are not recorded.

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

- g. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of 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. The report shall contain the following:
 - i. the monthly sulfur dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; The sulfur dioxide emissions in tons per month equals the total gallons of fuel oil/kerosene fired per month divided by 1,000 gallons times 142 pounds of sulfur dioxide times the maximum percent by weight fuel sulfur content divided by 2,000 pounds per ton.
 - ii. The monthly quantities of fuel oil/kerosene consumed for the previous 17 months; and
 - iii. The maximum sulfur content of the fuel oil/kerosene fired in the previous 6-month period.
 - iv. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if sulfur dioxide emissions from the fuel combustion equipment exceed 40 tons per consecutive twelve (12) month period. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the sulfur content of the fuel oil/kerosene exceeds 0.05 weight percent sulfur. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amount of fuel oil/kerosene fired in any consecutive twelve month period exceeds 7.5 million gallons.

B. Sources Subject to PSD Avoidance Condition for VOC

Drum Dryer No. 1 (ID No. 1611)

Drum Dryer No. 2 (ID No. 1621)

Drum Dryer No. 3 (ID No. 1631)

Suspension Burner No. 1 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3811)

Suspension Burner No. 2 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3821)

Suspension Burner No. 3 - Wood/Kerosene/No. 2 fuel oil/natural gas-fired (ID No. 3831)

Wet Cell No. 1 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3311)

Wet Cell No. 2 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3321)

Wet Cell No. 3 -Wood/natural gas/No. 2 fuel oil/Kerosene/Alternative fuel-fired (ID No. 3331)

The following table provides a summary of limits and standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	456.69 tons per year	15A NCAC 2Q .0317 (15A NCAC 2D .0530 Avoidance)

**1. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for
15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of 15A NCAC 2D .0530 as requested by the Permittee, the volatile organic compound (VOC) emissions from the Drum Dryers No. 1, 2, and 3; Wet Cells No. 1, 2, and 3; and Suspension Burners No. 1, 2, and 3 shall be less than 456.69 tons per consecutive twelve-month period.

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

- b. The Permittee shall calculate the VOC emissions on a monthly basis to ensure compliance with Section 2.2 B.1.a. above.

VOC emissions will be calculated as follows:

$$E_{VOC} = \frac{(23.18^*) \times t_{RO} + (231.8^*) \times t_{WESP}}{2000}$$

where:

E_{VOC} =tons of VOC emissions per month

23.18* = pounds of VOC per hour calculated by 44 ODT / hour x 5.27 lb VOC / ODT x (1-90%)

t_{RO} =hours per month when the RO is not bypassed and RO temperature is greater than or equal to 1275°F** (hourly block average temperatures)

231.8* =pounds of VOC per hour calculated by 44 ODT / hour x 5.27 lb VOC / ODT

t_{WESP} =hours per month when the RO is bypassed or hourly periods when the RO temperature is less than 1275°F** (hourly block average temperatures, including hourly RO periods of start-up, shutdown, and malfunction)

*These VOC emission rates may be revised administratively pending final review of the source test report by the DAQ.

** These hourly block average temperatures may be revised administratively pending final review of the source test report by the DAQ.

- c. To ensure compliance, the Permittee shall:
- establish an inspection and maintenance schedule/checklist that will include an annual inspection of the RO heating unit and associated inlet/outlet valves to ensure structural integrity;
 - continuously monitor and electronically record the combustion chamber temperatures in the RO and the state of the bypass valve. These records shall be maintained on-site and made available to an authorized representative upon request. (A 2 percent monitor downtime shall be acceptable); and
 - calibrate, operate, and maintain the monitoring device using procedures that take into account manufacturer's specifications to ensure quality.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if:

- the combustion chamber temperature readings are not recorded;
 - the hourly block average temperature monitoring device is not maintained. (A 2 percent monitor downtime shall be acceptable); or
 - the VOC emissions exceed the limit in Section 2.2 B.1.a. above.
- d. The results of the inspection, maintenance, and monitoring for combustion chamber temperatures shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- the date and time of each recorded action;
 - the results of each inspection or observation; and
 - the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

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

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of 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. 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 12-month periods over the previous 17 months; and
 - ii. All instances of deviations from the requirements of this permit must be clearly identified.

C. Sources subject to Plywood Composite Wood Products MACT

- Drum Dryer Nos. 1, 2, and 3 (ID Nos. 1611, 1621, and 1631)**
- Wet Cell Nos. 1, 2, and 3 (ID Nos. 3311, 3321, and 3331)**
- OSB Operations (ID Nos. B2801, B2811, B2831, B2807, and B2627)**
- Wood Sander Operation (ID No. B2841)**

The following table provides a summary of limits and/or standards for the emission units described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutant	Plywood and Composite Wood Products Manufacture MACT	15A NCAC 2D .1111, 40 CFR Part 63, Subpart DDDD

1. **15A NCAC 2D .1111, 40 CFR PART 63, SUBPART DDDD: NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS; PLYWOOD AND COMPOSITE WOOD PRODUCTS (PCWP)**
The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, “Maximum Achievable Control Technology” (MACT) as promulgated in 40 CFR Part 63, Subpart DDDD, “National Emissions Standards For Hazardous Air Pollutants for “Plywood and Composite Wood Products” by October 1, 2008, or another date as approved by DAQ, or as provided by the rule. [40 CFR 63.2233]

D. Facility-wide emission sources

The following table provides a summary of limits and standards applicable facility wide:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	Work Practice Standards	15A NCAC 2D .0958
Toxic Air Pollutants	Permit limits for toxic air pollutants shall not be exceeded. <u>State-enforceable only.</u>	15A NCAC 2D .1100
Odors	Odorous emissions must be controlled; <u>State enforceable only</u>	15A NCAC 2D .1806
Toxic Air Pollutants	Last MACT/air toxics demonstration; <u>State-enforceable only</u>	15A NCAC 2Q .0705
Toxic Air Pollutants	Toxic air pollutant emissions shall not exceed the 2Q .0711 levels unless ambient standards are not exceeded, <u>State-only requirement</u>	15A NCAC 2Q .0711

1. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
 - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,

- iii. store wipe rags containing volatile organic compounds in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act, and
 - vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
- i. flush parts in the freeboard area,
 - ii. take precautions to reduce the pooling of solvent on and in the parts,
 - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. not fill cleaning machines above the fill line, and not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

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

- c. To ensure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

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

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.
- If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

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

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

STATE-ONLY REQUIREMENT

2. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS

- a. Pursuant to 15A NCAC 2D .1100 and in accordance with the approved applications for air toxic compliance demonstrations, the following permit limits shall not be exceeded:
- i. The solid/liquid waste fired in the wet fuel furnaces installed on dryers Nos. 1611, 1621, and 1631 shall be limited to the following alternative fuels:
 - Post wet water
 - Resinated material
 - Crank case oil
 - Stencil paint (water-based)
 - Ink (mineral oil-based)
 - Used oil
 - Resin sump water
 - Wet ESP sludge
 - Nail line ink
 - Knife grinding coolant
 - Edgeseal paint (water-based)

- ii. The solid/liquid waste fired in the wet fuel furnaces installed on dryers Nos. 1611, 1621, and 1631 shall be limited to the following periodic maximum throughputs:

ALTERNATIVE FUEL	HOURLY LIMIT	DAILY LIMIT	MONTHLY LIMIT	ANNUAL LIMIT
Post Wet Water	-	-	60 gallons (continuous mix with sump water)	720 gallons
Resinated Material	0.5 cubic yards	-	-	624 cubic yards
Crank Case Oil	-	-	60 gallons (continuous mix with used oil)	720 gallons
Used Oil	5 gallons	-	-	14,400 gallons
Stencil Paint (Water-Based)	5 gallons	-	-	1,560 gallons
Ink (Mineral Oil-Based)	5 gallons	-	-	360 gallons
Edgeséal Paint (Water-Based)	30 gallons	-	-	20,000 gallons
Resin Sump Water	-	112 gallons	-	31,278 gallons
Wet ESP Sludge	750 pounds	-	-	3,285 tons

- iii. The Permittee shall retain records at the plant site, indicating the type and amount of waste fuel fired on a daily basis.
- iv. The Permittee shall submit a report of the maximum daily quantity of each type of solid/liquid waste fired (in gallons per day) for each 24-hour period by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.
- v. the following emission sources shall limit toxic air pollutant emissions as specified below:

EMISSION UNITS	POLLUTANTS	LIMITS
Wet ESP (ID No. 3450) on dryers No. 1, 2, and 3 (ID Nos. 1611, 1621, & 1631)	acrolein	1.04E+02 lb/hr
	arsenic	1.81E+01 lb/yr
	benzene	4.13E+03 lb/yr
	benzo(a)pyrene	4.48E+03 lb/yr
	beryllium	4.10E+02 lb/yr
	cadmium	2.42E+02 lb/yr
	chlorine	6.18E+02 lb/hr
	chlorine	3.94E+03 lb/day
	chromium VI	7.65E+00 lb/yr
	formaldehyde	6.73E+01 lb/hr
n-hexane	3.23E+04 lb/day	
hexane isomers	6.56E+04 lb/hr	

EMISSION UNITS	POLLUTANTS	LIMITS
Wet ESP (ID No. 3450) on dryers No. 1, 2, and 3 (ID Nos. 1611, 1621, & 1631) continued...	hydrogen chloride	1.18E+02 lb/hr
	manganese	5.36E+02 lb/day
	mercury, vapor	2.00E+01 lb/day
	mercury, alkyl	1.77E+00 lb/day
	methylene chloride	1.16E+03 lb/hr
	methylene chloride	1.02E+07 lb/yr
	methyl ethyl ketone	1.58E+04 lb/hr
	methyl ethyl ketone	3.80E+05 lb/day
	nickel	1.05E+02 lb/day
	phenol	1.17E+02 lb/hr
	styrene	6.98E+03 lb/hr
	sulfuric acid mist	1.03E+01 lb/hr
	sulfuric acid mist	2.48E+02 lb/day
	toluene	2.00E+04 lb/hr
	Multi-clone exhaust stack (ID No. 3319-100) on Wet Cell No. 1 (ID No. 3311) of dryer No. 1;	acrolein
benzene		1.27E+02 lb/yr
formaldehyde		2.57E-01 lb/hr
phenol		3.22E-01 lb/hr
Multi-clone exhaust stack (ID No. 3340-000) on Wet Cell No. 3 (ID No. 3331) of dryer No. 3	acrolein	7.72E-02 lb/hr
	benzene	1.27E+02 lb/yr
	formaldehyde	2.57E-01 lb/hr
	phenol	3.22E-01 lb/hr
Multi-clone exhaust stack (ID No. 3319-100) on Wet Cell No. 1 (ID No. 3311) of dryer No. 1; Multi-clone exhaust stack (ID No. 3340-000) on Wet Cell No. 3 (ID No. 3331) of dryer No. 3	arsenic	7.9E+00 lb/yr
	benzo(a)pyrene	1.27E+03 lb/yr
	beryllium	1.54E+02 lb /yr
	cadmium	8.65E+01 lb/yr
	chlorine chlorine chromium VI	7.32E+01 lb/hr 5.56E+02 lb/day 3.33E+00 lb/yr

EMISSION UNITS	POLLUTANTS	LIMITS
Multi-clone exhaust stack (ID No. 3319-100) on Wet Cell No. 1 (ID No. 3311) of dryer No. 1; Multi-clone exhaust stack (ID No. 3340-000) on Wet Cell No. 3 (ID No. 3331) of dryer No. 3	n-hexane (Wet cell No.1 Idle Run Stack)	3.49E+03lb/day
	n-hexane (Wet cell No.3 Idle Run Stack)	4.36E+03 lb/day
	hydrogen chloride	3.35E+01 lb/hr
	manganese	2.21E+02 lb/day
	mercury, vapor	4.86E+00 lb/day
	mercury, alkyl	5.03E-01 lb/day
	methylene chloride	1.38E+02 lb/hr
	nickel	4.59E+01 lb/day
	styrene	8.07E-04 lb/hr
	sulfuric acid mist	3.88E+00 lb/hr
	sulfuric acid mist	9.30E+01 lb/day
	toluene (Wet cell No.1 Idle Run Stack)	6.32E-03 lb/hr
	toluene (Wet cell No. 3 Idle Run Stack)	6.38E-03 lb/hr
	xylene	8.70E-03 lb/hr
Multicyclone exhaust stack (ID No. 3329-100) on Wet Cell No. 2 (ID No. 3321) of Dryer No. 2 (ID No. 1621)	acrolein	7.72E-02 lb/hr
	arsenic	3.95E+00 lb/yr
	benzene	1.27E+02 lb/yr
	benzo(a)pyrene	6.36E+02 lb/yr
	beryllium	6.82E+01 lb/yr
	cadmium	3.84E+01 lb/yr
	chlorine	3.66E+01 lb/hr
	chlorine	2.78E+02 lb/day
	chromium VI	1.66E+00 lb/yr
	formaldehyde	2.57E-01 lb/hr
	n-hexane	3.49E+03 lb/day
	hexane isomers	7.12E+03 lb/hr
	hydrogen chloride	1.67E+01 lb/hr
	manganese	1.11E+02 lb/day
mercury, alkyl	2.51E-01 lb/day	
mercury, vapor	2.16E+00 lb/day	

EMISSION UNITS	POLLUTANTS	LIMITS
Multicyclone exhaust stack (ID No. 3329-100) on Wet Cell No. 2 (ID No. 3321) of Dryer No. 2 (ID No. 1621) continued....	methylene chloride nickel	6.91E+01 lb/hr 2.29E+01 lb/day
	phenol	3.22E-01 lb/hr
	styrene	4.32E-04 lb/hr
	sulfuric acid mist	1.72E+00 lb/hr
	sulfuric acid mist	4.13E+01 lb/day
	toluene	5.64E-03 lb/hr
	xylene	3.86E-03 lb/hr
One OSB board press vent stack (ID No. 3350-000) on OSB board press (ID No. 4301)	formaldehyde	4.89E+01 lb/hr
	phenol	7.12E+02 lb/hr
Fire water engine (ID No. 5000-100)	acrolein	8.15E-03 lb/hr
	arsenic	2.33E-01 lb/yr
	benzene	1.06E+01 lb/yr
	benzo(a)pyrene	1.19E+00 lb/yr
	beryllium	1.05E+00 lb/yr
	cadmium	1.95E+01 lb/yr
	chromium VI	5.75E-02 lb/yr
	formaldehyde	1.64E-02 lb/hr
	n-hexane	3.55E+02 lb/day
	hexane isomers	7.24E+02 lb/hr
	manganese	1.49E+01 lb/day
	mercury, vapor	2.42E-02 lb/day
	nickel	2.23E+00 lb/day
	sulfuric acid mist	1.75E-01 lb/hr
	sulfuric acid mist	4.20E+00 lb/day
	toluene	2.71E+00 lb/hr
	toluene	6.51E+01 lb/day
xylene	1.79E+00 lb/hr	
xylene	4.30E+01 lb/day	

EMISSION UNITS	POLLUTANTS	LIMITS
Woodyard hog engine (ID No. 1100-306)	acrolein	1.70E-03 lb/hr
	arsenic	6.02E-01 lb/yr
	benzene	1.12E+02 lb/yr
	benzo(a)pyrene	3.09E+00 lb/yr
	beryllium	2.57E+00 lb/yr
	cadmium	5.05E+01 lb/yr
	chromium VI	1.48E-01 lb/yr
	formaldehyde	2.69E-03 lb/hr
	n-hexane	9.15E+02 lb/day
	hexane isomers	1.87E+03 lb/hr
	manganese	3.85E+01 lb/day
	mercury, vapor	5.94E-02 lb/day
	nickel	5.76E+00 lb/day
	sulfuric acid mist	4.54E-01 lb/hr
	sulfuric acid mist	1.09E+01 lb/day
	toluene	6.64E+00 lb/hr
	toluene	1.59E+02 lb/day
	xylene	4.36E+00 lb/hr
xylene	1.05E+02 lb/day	
Standby generator (ID No. 4763-100)	acrolein	1.66E-03 lb/hr
	arsenic	6.10E-01 lb/yr
	benzene	5.05E+01 lb/yr
	benzo(a)pyrene	3.14E+00 lb/yr
	beryllium	2.50E+00 lb/yr
	cadmium	5.12E+01 lb/yr
	chromium VI	1.51E-01 lb/yr
	formaldehyde	2.62E-03 lb/hr
	n-hexane	9.28E+02 lb/day
	hexane isomers	1.89E+03 lb/hr

EMISSION UNITS	POLLUTANTS	LIMITS
Standby generator (ID No. 4763-100) Continued..	manganese	3.90E+01 lb/day
	mercury, vapor	5.76E-02 lb/day
	nickel	5.83E+00 lb/day
	sulfuric acid mist	4.58E-01 lb/hr
	sulfuric acid mist	1.10E+01 lb/day
	toluene	6.44E+00 lb/hr
	toluene	1.55E+02 lb/day
	xylene	4.28E+00 lb/hr
	xylene	1.03E+02 lb/day
Green woodwaste bagfilter (ID No. 2801)	formaldehyde	6.30E-01 lb/hr
	phenol	3.53E-02 lb/hr
Blender/Fines bagfilter (ID No. 2807)	formaldehyde	6.30E-01 lb/hr
	phenol	3.53E-02 lb/hr
Dryer RO (ID No. 3460)	acrolein	1.67E+01 lb/hr
	benzene	6.64E+03 lb/yr
	formaldehyde	3.58E+00 lb/hr
	phenol	4.89E+00 lb/hr
13 Spray areas (ID No. 13-SA)	acrolein	2.75E-05 lb/hr
	benzene	8.51E-07 lb/yr
	formaldehyde	2.49E-05 lb/hr
	phenol	1.37E-03 lb/hr
3 Spray areas (ID No. 3-SA)	acrolein	6.37E-06 lb/hr
	benzene	1.97E-07 lb/yr
	formaldehyde	5.75E-06 lb/hr
	phenol	3.16E-04 lb/hr
3 Wastewater ponds (ID No. 3-WP)	acrolein	3.74E-02 lb/hr
	benzene	8.92E-01 lb/yr
	formaldehyde	1.39E-04 lb/hr
	phenol	1.29E-01 lb/hr

EMISSION UNITS	POLLUTANTS	LIMITS
Sander dust bagfilter (ID No. 2841)	benzene	2.77E+02 lb/hr
	formaldehyde	3.73E-01 lb/hr
PF storage tank (ID No. 4011)	formaldehyde	6.23E-03 lb/hr
	phenol	3.53E-02 lb/hr
Dry woodwaste bagfilter (ID No. 2811)	benzene	1.61E+02 lb/yr
	formaldehyde	8.54E-01 lb/hr
	phenol	2.88E+00 lb/hr

- b. To ensure compliance with the above limits, the following restrictions shall apply:
The Permittee shall comply with the following limitations;
- a) BACT emission levels;
 - b) maximum amount of wood fired;
 - c) maximum amount of natural gas fired;
 - d) maximum amount of No.2 fuel oil fired;
 - e) maximum amount of alternative fuels fired;
 - f) maximum capacities of the wood strand dryers; and
 - g) maximum hours of operation

STATE-ONLY REQUIREMENT

3. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

- a. 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-ONLY REQUIREMENT

4. 15A NCAC 2Q .0705: EXISTING SOURCES AND SIC CALLS

- a. Air Permit Application Submittal Requirements - In accordance with 15A NCAC 2Q .0705(b), for sources at a facility subject to a MACT standard, excluding the MACT for combustion sources, an air permit application shall be required demonstrating compliance with 15A NCAC 2D .1100 “Control of Toxic Air Pollutants”:
 - i. at the same time the facility submits an air permit application to comply with the last MACT standard (excluding the MACT for combustion sources); or
 - ii. on or before the last MACT standard (excluding the MACT for combustion sources) compliance deadline date (Subpart DDDD, October 1, 2008, or another date approved by the DAQ, or as provided by the rule). To allow the Division time to process an application before the compliance deadline date you should submit an application no later than three months prior to the compliance deadline date if you need a construction/operation permit for the installation of a control device(s) to comply with either 2D .1100 or the last MACT standard (excluding the MACT for combustion sources).
- b. The permit application demonstrating compliance with 15A NCAC 2D .1100 shall include an evaluation for all toxic air pollutants covered under rule 15A NCAC 2D .1104 for all sources at the facility, excluding those sources exempt from evaluation under 15A NCAC 2Q .0702. If the facility has already demonstrated facility-wide compliance with 2D .1100 the application should include the date of compliance demonstration, air permit number, and a list of applicable toxic pollutants.
- c. Compliance Deadline Date Requirement - The facility shall be in compliance with the 15A NCAC 2D .1100 Toxic Air Pollutants rule by the same deadline date that it is required to be in compliance with the last MACT standard (excluding the MACT for combustion sources).

STATE-ONLY REQUIREMENT

5. TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT

Pursuant to 15A NCAC 2Q .0711 “Emission Rates Requiring a Permit,” the Permittee has made a demonstration that facility-wide actual emissions of acetaldehyde do not exceed the Toxic Permit Emission Rate (TPER) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that acetaldehyde emissions from the facility, including fugitive emissions, will not exceed the TPER listed in 15A NCAC 2Q .0711.

- a. A permit to emit acetaldehyde shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPER.
- b. PRIOR to exceeding the listed TPER, the Permittee shall be responsible for obtaining a permit to emit acetaldehyde and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 “Control of Toxic Air Pollutants”.
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that acetaldehyde emissions do not exceed the TPER listed below:

Pollutant	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Acetaldehyde			6.8

E. Sources and Control Devices Subject to Use of Projected Actual Emissions

- **OSB Press (ID No. 4301) controlled by biofilter (ID No. 3470)**
- **Wet Cells (ID Nos. 3311, 3321 and 3331), Suspension Burners (ID Nos. 3811, 3821 and 3831) and Drum Dryers (ID Nos. 1611, 1621 and 1631) controlled by simple cyclones (ID Nos. 1611-150, 1621-150 and 1632-150), wet electrostatic precipitator (ID No. 3450) and regenerative oxidizer (3460) in series.**

1. 15A NCAC 2D .0530(u) Use of Projected Actual Emissions –

Pursuant to 15A NCAC 2D .0530(u), the applicant relied on the use of projected actual emissions to demonstrate that using the biofilter (ID No. 3470), wet electrostatic precipitator (ID No. 3450) and regenerative oxidizer (3460) to control emissions from the OSB Press (ID No. 4301), Wet Cells (ID Nos. 3311, 3321 and 3331), Suspension Burners (ID Nos. 3811, 3821 and 3831) and Drum Dryers (ID Nos. 1611, 1621 and 1631) would not result in a significant emissions increase. The Permittee shall submit a report to the Regional Office within 60 days after the end of each calendar year during which these records must be generated. In addition to the items listed below, the report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c), the Permittee shall maintain records of after controls emissions of VOCs from the biofilter (ID No. 3470), wet electrostatic precipitator (ID No. 3450) and regenerative oxidizer (3460), the hours of operation of each of these control devices (ID No. 3470, 3450 and 3460), the hours the regenerative oxidizer (3460) was bypassed and the total OSB production in square feet per year. These records and reports shall be maintained for five years following regular operations after the change.

2.3 Filing a Title V application and Notification Requirement.

- a) The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the biofilter (ID No. 4301), Dryers (ID No. 1611 and 1621), wet electrostatic precipitator (ID No. 3450), suspension burners (ID Nos. 3811, 3821, and 3831) and the tongue and groove (ID No. B2811) on or before 12 months after commencing operation of any of these sources.
- b) Within 15 days after start up of any of these sources listed in 2.3 a) the Permittee shall provide written notice of the start up to the DAQ Regional Office Supervisor.

2.4- Schedule of Compliance

The OSB Press is subject to the compliance schedule described below, addressing compliance with the Plywood and Composite Wood Products (“PCWP”) MACT standard, 40 CFR Part 63, Subpart DDDD as established in the Special Order by Consent (ORDER) no. **2008-001**. This compliance schedule is an enforceable sequence of actions with milestones leading to compliance with applicable requirements for which the source is in noncompliance at the time of permit issuance. Any judicial consent decree or an administrative order to which the source is subject shall be supplemental to and shall not sanction noncompliance with other applicable requirements on which it is based [15A NCAC 2Q .0508(i)(16) and(m)].

A. **Actions to be Taken by the Permittee** - The Permittee, desiring to comply with the legal requirements of this permit and with all pertinent provisions of the law and applicable requirements, is subject to the following activities:

1. The COMPANY agrees to perform the following activities included in Table 1.

Table 1

<u>TASK</u>	<u>DEADLINE DATE</u>
1. Submit biofilter reliability evaluation plan to NCDAQ for approval	July 1, 2008
2. Begin biofilter operation	On date permit to operate is issued or by September 1, 2008, which ever is later.
3. Begin biofilter reliability study	On date permit to operate is issued or by September 1, 2008, which ever is later.
4. End biofilter reliability study	Eight months after beginning biofilter reliability study or by May 1, 2009, which ever is later.
5. Report results biofilter reliability study to the NCDAQ	One month after end of biofilter reliability study or by June 1, 2009, which ever is later.
6. Implement best management practices	One month after reporting results of reliability study or by July 1, 2009, which ever is later.
7. Full MACT Compliance	One month after reporting results of reliability study or by July 1, 2009, which ever is later.
8. Submit compliance test report and compliance certification	Three months after achieving full MACT compliance or by October 1, 2009, which ever is later.

B. **Reporting** - The COMPANY shall submit no later than fourteen (14) days after the deadline for completing each increment required in Table 1. written certification to the Air Quality Regional Supervisor, Winston-Salem Regional Office, Division of Air Quality, whether such increment has been performed.

SECTION 3 - GENERAL CONDITIONS (version 2.22.1)

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

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

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

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

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

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

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

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

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

E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.

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

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

4. Emissions Trading [15A NCAC 2Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

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

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

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

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

Excess Emissions

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

Permit Deviations

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 2Q .0508(e) and 2Q .0513(b)]

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

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

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

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]

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

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.

2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

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

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

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

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

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

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

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

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

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

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

II. Ambient Air Quality Standards [15A NCAC 2D .0501(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 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

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

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

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
 - a. a description of the training and air testing experience of the person directing the test;
 - b. a certification of the test results by sampling team leader and facility representative;
 - c. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);

- d. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
 - e. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - f. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - g. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
 6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ.

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

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

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

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

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

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

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

- NN. 1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.

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

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

ATTACHMENT

List of Acronyms

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