



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: WEST FRASER, INC.

FACILITY NAME: WEST FRASER MAPLESVILLE LUMBER MILL

FACILITY/PERMIT NO.: 403-S005

LOCATION: MAPLESVILLE, CHILTON COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, <u>Ala. Code</u> §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, <u>Ala. Code</u> §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the Clean Air Act of 1990, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the Clean Air Act of 1990 are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date:

Modification Date:

Expiration Date: November 29, 2024

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Federally Enforceable Provisos	Regulations
1. <u>Transfer</u>	
This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-1613(1)(a)5.	ADEM Admin. Code r. 335-3-1602(6)
2. Renewals	
An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	ADEM Admin. Code r. 335-3-1612(2)
The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3. Severability Clause	
The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	ADEM Admin. Code r. 335-3-1605(e)
4. Compliance	
(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	ADEM Admin. Code r. 335-3-1605(f)
(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin. Code r. 335-3-1605(g)

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	5. <u>Termination for Cause</u>	
	This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	ADEM Admin. Code r. 335-3-1605(h)
	6. Property Rights	
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin. Code r. 335-3-1605(i)
	7. Submission of Information	
	The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Air Division copies of records required to be kept by this permit.	ADEM Admin. Code r. 335-3-1605(j)
8.	Economic Incentives, Marketable Permits, and Emissions Trading	
	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin. Code r. 335-3-1605(k)
	9. Certification of Truth, Accuracy, and Completeness	
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin. Code r. 335-3-1607(a)
	10. Inspection and Entry	
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	ADEM Admin. Code r. 335-3-1607(b)

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(a) Enter upon the permittee's premises where a some or emissions-related activity is conducted, of must be kept pursuant to the conditions of the	r where records	
(b) Review and/or copy, at reasonable times, a must be kept pursuant to the conditions of the		
(c) Inspect, at reasonable times, this facili (including monitoring equipment and air p equipment), practices, or operations regula pursuant to this permit;	ollution control	
(d) Sample or monitor, at reasonable times, parameters for the purpose of assuring comp permit or other applicable requirements.		
11. Compliance Provisions		
(a) The permittee shall continue to comply with requirements with which the company has coalready in compliance.		
(b) The permittee shall comply in a timely manner requirements that become effective during to permit.		
12. Compliance Certification		
The permittee shall submit a complete and accurate certification by January 29th of each year for reporting period of this permit (November 30th – November 30	or each annual 335-3-1607(e)	
(a) The compliance certification shall include the	following:	
(1) The identification of each term or condition that is the basis of the certification;	on of this permit	
(2) The compliance status;		
(3) The method(s) used for determining the coof the source, currently and over the consistent with ADEM Admin. Code r. (Monitoring and Recordkeeping Requirement)	reporting period 335-3-1605(c)	
(4) Whether compliance has been continuous	or intermittent;	
(5) Such other facts as the Air Division determine the compliance status of the so		

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Regulations

(b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463

and to:

Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303

13. Reopening for Cause

Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:

ADEM Admin. Code r. 335-3-16-.13(5)

- (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.
- (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.
- (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

14. Additional Rules and Regulations

This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.

§22-28-16(d), <u>Code of Alabama 1975</u>, as amended

General Permit Provisos Federally Enforceable Provisos Regulations 15. Equipment Maintenance or Breakdown (a) In case of shutdown for more than one (1) hour of air pollution ADEM Admin. Code r. control equipment (which operates pursuant to any permit 335-3-1-.07(1),(2) issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Air Division at least (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following: (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quality of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the sources operation during the maintenance period. (b) In the event that there is a breakdown of equipment or upset of process for a period exceeding one (1) hour in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected. 16. Operation of Capture and Control Devices

All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established. §22-28-16(d), <u>Code of</u> <u>Alabama 1975</u>, as amended

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Federally Enforceable Provisos Regulations 17. Obnoxious Odors This permit is issued with the condition that, should obnoxious ADEM Admin. Code r. 335-3-1-.08 odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible. 18. Fugitive Dust (a) Precautions shall be taken to prevent fugitive dust emanating ADEM Admin. Code r. from plant roads, grounds, stockpiles, screens, dryers, 335-3-4-.02 hoppers, ductwork, etc. (b) Plant or haul roads and grounds shall be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds: (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization. 19. Additions and Revisions Any modifications to this source shall comply with the ADEM Admin. Code r. 335-3-16-.13 and modification procedures in Rules 335-3-16-.13 or 335-3-16-.14. 335-3-16-.14

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Federally Enforceable Provisos Regulations 20. Recordkeeping Requirements (a) Records of required monitoring information of the source shall ADEM Admin. Code r. include the following: 335-3-16-.05(c)2. (1) The date, place, and time of all sampling measurements: (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. (b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit. 21. Reporting Requirements ADEM Admin. Code r. (a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All instances of deviations 335-3-16-.05(c)3. from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code r. 335-3-16-.04(9). (b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report shall include the probable cause of said deviations, and any corrective actions or preventive measures that were taken. 22. Emission Testing Requirements Each point of emission which requires testing shall be provided ADEM Admin. Code r. with sampling ports, ladders, platforms, and other safety 335-3-1-.05(3) and equipment to facilitate testing performed in accordance with 335-3-1-.04(1) procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.

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advance of all emis	tust be notified in writing at least 10 days in ssion tests to be conducted and submitted as e with the Department's air pollution control ns.			
	concerning testing methods and procedures, be included with the notification letter:	ADEM Admin. Code r. 335-3-104		
anticipated of the sources are to be	st crew is expected to arrive, the date and time he start of the first run, how many and which be tested, and the names of the persons and/or y that will conduct the tests.			
including type components, ty probe cleaning	scription of each sampling train to be used, of media used in determining gas stream the of probe lining, type of filter media, and generated and solvent to be used (if test uires probe cleaning).			
rate, any opera	The process(es) to be tested including the feed ting parameters used to control or influence and the rated capacity.			
their relative	etches showing sampling point locations and positions to the nearest upstream and s flow disturbances.			
or the Air Division	nay be held at the request of the source owner. The necessity for such a meeting and the will be determined on a case-by-case basis.	ADEM Admin. Code r. 335-3-104		
days of the actual	est be submitted to the Air Division within 30 completion of the test unless an extension of approved by the Air Division.			
23. Payment of En	nission Fees			
required by AD	shall remit the annual Operating Permit Fees EM Admin. Code r. 335-1-704 according to ADEM Admin. Code r. 335-1-705.	ADEM Admin. Code r. 335-1-705		
	hall submit its estimate of actual emissions for lendar year according to the schedule in ADEM	ADEM Admin. Code r. 335-1-705		

Admin. Code r. 335-1-7-.05.

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24. Other Reporting and Testing Requirements			
Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	ADEM Admin. Code r. 335-3-104(1)		
25. Title VI Requirements (Refrigerants)			
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, 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.	ADEM Admin. Code r. 335-3-1605(a)		
No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.			
The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the US EPA and the Department as required.			
26. Chemical Accidental Prevention Provisions			
If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68		
(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.			
(b) The owner or operator shall submit one of the following:			
(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a) or,			
(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.			

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Federally Enforceable Provisos	Regulations		
27. Display of Permit			
This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.	ADEM Admin. Code r. 335-3-1401(1)(d)		
28. Circumvention			
No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	ADEM Admin. Code r. 335-3-110		
29. Visible Emissions			
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	ADEM Admin. Code r. 335-3-401(1)		
30. Fuel-Burning Equipment			
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-403.	ADEM Admin. Code r. 335-3-403		
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-501.	ADEM Admin. Code r. 335-3-501		
31. Process Industries - General			
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-404.	ADEM Admin. Code r. 335-3-404		
32. Averaging Time for Emission Limits			
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	ADEM Admin. Code r. 335-3-105		

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33. Open Burning			
Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.	ADEM Admin. Code r. 335-3-301		
34. Permit Shield			
A Permit Shield exists under this operating permit in accordance with ADEM Admin. Code R. 335-3-1610 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit.	ADEM Admin. Code r. 335-3-1610		

Emission Unit No. 008 (Two (2) Continuous Direct-Fired Kilns) Summary Page

Description: 100 MMBF/yr Continuous Direct-Fired Kiln No.1 with 35

MMBtu/hr wood-fired burner (CDK #1)

100 MMBF/yr Continuous Direct-Fired Kiln No.2 with 35

MMBtu/hr wood-fired burner (CDK #2)

Emission Point No.	Description	Pollutant	Emission limit	Regulation
CDK-01	Fugitive Emissions	VOC	3.76 lb/MBF (as VOC)	PSD/BACT
CDK-02	Fugitive Emissions	VOC	3.76 lb/MBF (as VOC)	PSD/BACT

Emission Unit No. 008 (Two (2) Continuous Direct-Fired Kilns) Unit Specific Provisos

		Federally Enforceable Provisos	Regulations
1.	Ap	plicability	
	(a)	These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	(b)	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))".	ADEM Admin. Code r. 335-3-1404
	(c)	These units are subject to the applicable requirements of 40 CFR 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products, and the applicable requirements of 40 CFR 63, Subpart A, General Provisions as provided in Table 10 to Subpart DDDD.	ADEM Admin. Code r. 335-3-1106(81) and 335-3-1106(1)
2.	En	nission Standards	
	(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from these units in excess of the amount determined by the following equation:		ADEM Admin. Code r. 335-3-404
		$E = 3.59 P^{0.62}$ (P < 30 TPH)	
		Or	
		$E = 17.31 \ P^{0.16} (P \ge 30 \ \text{TPH})$	
		where	
		E = Emissions in pounds per hour	
		<i>P</i> = Process weight in tons per hour.	
	(b)	The permittee shall not cause or allow the volatile organic compound (VOC) emissions from each kiln to exceed 3.76 lb/MBF (as VOC)	ADEM Admin. Code r. 335-3-1404
	(c)	The permittee shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-401

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	(d) The permittee shall only use untreated wood to fire this kiln. Approval must be received from the Air Division prior to burning any other type of fuel.	ADEM Admin. Code r. 335-3-1605(a)
3.	Compliance and Performance Test Methods and Procedures	
	(a) If testing is required, the VOC emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 25A. An alternative test method may be utilized provided prior approval is granted by the Air Division.	ADEM Admin. Code r. 335-3-105
	(b) Opacity of stack emissions shall be determined in accordance with Method 9 at 40 CFR Part 60, Appendix A.	ADEM Admin. Code r. 335-3-105
	(c) Any compliance or performance test required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.	ADEM Admin. Code r. 335-3-105
4.	Emissions Monitoring	
	The permittee shall proper maintenance and operating practices as recommended by the manufacturer, which include but may not be limited to the following:	
	(a) Proper operation practices:	
	(i) Operate kilns within a temperature range of 230°F to 270°F depending on the dimensions of lumber being dried. The temperature shall be continuously monitored by a dry bulb temperature sensor;	
	(ii) Utilize proper kiln feed rates, which would be between 3 and 12 feet per hour depending upon the dimensions and moisture content of lumber being dried and other variables such as air flow, weather, time of year, and target moisture content.	

(b) Proper maintenance practices

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Regulations

- (i) Conduct daily routine maintenance to include cleaning debris from around kiln and pusher tracks;
- (ii) Conduct weekly routine maintenance to include the greasing kiln fan shafts;
- (iii) Conduct quarterly routine maintenance to include greasing and lubricate fan motors and bearings;
- (iv) Conduct semiannual routine maintenance to include checking and retightening (if needed) motor mount bolts and taper lock bolts
- (v) Conduct annual routine maintenance to include the following:
 - 1) Inspect controller cabinet for dust and small debris;
 - 2) Inspect all sensors for proper operation;
 - 3) Inspect and adjust (if needed) all intake vent lids to assure they are opening and closing in unison and that they close tightly;
 - 4) Inspect all rods and linkage bolts for tightness, wear, and necessary maintenance or replacement;
 - 5) Grease each rod support bearing for smooth rotation; and
- (a) Remove cover and inspect motor wiring box for moisture or corroded connections. Clean and repair as needed.

5. Recordkeeping and Reporting Requirements

- (a) The permittee shall maintain records documenting its compliance with the proper maintenance and operating practices.
- **(b)** The permittee shall retain all required records in a permanent form suitable and readily available for inspection for a period of five years from the date of generation of each record.
- **(c)** If these kilns should exceed an applicable limit at any time, the permittee shall notify the Air Division in writing within two working days of determining that the exceedance occurred.

- (d) The permittee shall submit a Semiannual Monitoring Report for these kilns to the Air Division as part of the Semiannual Monitoring Report as required by General Permit Proviso No. 21(a), shall be submitted no later than 60 days after the end of each semiannual reporting period (November 30th – May 29th and May 30th – November 29th. This report shall include a certification that all proper maintenance and operating practices were accomplished as required during the reporting period, and if not, describe the date and reason any required action was not accomplished
- **(e)** The permittee shall submit an Annual Compliance Certification for these kilns to the Air Division as part of the Annual Compliance Certification by January 29th of each annual reporting period (November 30th November 29th). This report shall include the following for these kilns
 - (i) The identification of each term or condition of this permit that is the basis of the certification.
 - (ii) The compliance status, whether continuous or intermittent.
 - (iii) The method(s) used for determining the compliance status of the source, currently and over the reporting period.
 - (iv) Other facts the Department may require to determine the compliance status of the source.
 - (v) The compliance certification shall contain certification by a responsible official of truth, accuracy and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

Emission Unit No. 009 (Fuel Storage Silo Nos. 1 and 2) Summary Page

Description: Two (2) Green Fuel Silos for Continuous Direct-Fired Kiln processes

Emission Point No.	Description	Pollutant	Emission limit	Regulation
SILO-01	Fugitive Emissions	TSP	1.0 lb/hr	PSD/SMS
SILO-02	Fugitive Emissions	TSP	1.0 lb/hr	PSD/SMS

Emission Unit No. 009 (Fuel Storage Silos Nos. 1 and 2) Unit Specific Provisos

	Federally Enforceable Provisos	Regulations
1.	Applicability	
	(a) This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	(b) This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))".	ADEM Admin. Code r. 335-3-1404
2.	Emission Standards	
	(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from these units in excess of the amount determined by the following equation:	ADEM Admin. Code r. 335-3-404
	$E = 3.59 P^{0.62}$ (P < 30 TPH)	
	Or	
	$E = 17.31 \ P^{0.16} (P \ge 30 \ \text{TPH})$	
	where	
	E = Emissions in pounds per hour	
	P = Process weight in tons per hour.	

	Federally Enforceable Provisos	Regulations
	(b) The permittee shall not cause or allow the TSP emissions from these sources to exceed 1.0 lb/hr (each), as measured in accordance with 40 CFR Part 60, Appendix A, Method 5 or other method if approved in advance by the Air Division.	
	(c) The permittee shall not cause or allow these sources of particulate emissions to discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall these sources discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin Code r. 335-3-401
	(d) Should these sources, at any time, exceed the limits for TSP, the permittee shall notify the Air Division within two (2) working days of determining that the exceedance occurred.	
3.	Compliance and Performance Test Methods and Procedures	
	There are no unit-specific compliance and performance test methods and procedures for this unit.	N/A
4.	Emission Monitoring	
	There are no unit-specific emission monitoring requirements for this unit.	N/A
5.	Recordkeeping and Reporting Requirements	
	There are no unit-specific recordkeeping or reporting requirements for this unit.	N/A

Emission Unit No. 010 (Planer Mill Operations) Summary Page

Description: 200 MMBF/hr Planer Mill with a Cyclone

Permitted Operating Schedule:
$$\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$$

Emission Point No.	Description	Pollutant	Emission limit	Regulation
EU-010	Planer Mill Cyclone Exhaust Stack	РМ	E = $3.59(P)^{0.62}$ for P<30 TPH Or E = $17.31(P)^{0.16}$ for P≥30 TPH	ADEM Admin. Code r. 335-3-404
			1.55 lb/hr	ADEM Admin. Code r. 335-3-1404 (SMS)

Emission Unit No. 010 (Planer Mill Operation) Unit Specific Provisos

	Federally Enforceable Provisos	Regulations
1.	Applicability	
	This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2.	Emission Standards	
	(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from each of these units in excess of the amount determined by the following equation:	ADEM Admin. Code r. 335-3-404
	$E = 3.59 \ P^{0.62} \ (P < 30 \ TPH)$	
	Or	
	$E = 17.31 \ P^{0.16} \ (P \ge 30 \ \text{TPH})$	
	where $E = \text{Emissions in pounds per hour}$	
	<i>P</i> = Process weight in tons per hour	
	(b) The permittee shall not cause or allow the TSP emissions from this source to exceed 1.55 lb/hr.	ADEM Admin. Code r. 335-3-1404
	(c) The permittee shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-401
	(d) The permittee shall not cause or allow the production of the planer mill to exceed 200 MMBF per 12-month rolling average.	ADEM Admin. Code r. 335-3-1404
3.	Compliance and Performance Test Methods and Procedures	
	(a) If testing is required, the emissions of total particulate matter from this unit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.	ADEM Admin. Code r. 335-3-105
	(b) If testing is required, the emissions of PM_{10} and $PM_{2.5}$ from this unit shall be determined in accordance with EPA Reference Methods 201A and 202.	ADEM Admin. Code r. 335-3-105
	(c) If testing is required, the emissions of total particulate matter from this unit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9	

	Federally Enforceable Provisos	Regulations
4.	Emission Monitoring	
	(a) While each process is operating, someone familiar with the process shall observe the visible emissions from the cyclon exhaust(s) a minimum of once daily during daylight hours for greater than normal visible emissions as determined by pervious observations.	335-3-1605(c)
	(b) Whenever observed visible emissions are greater than normal from the cyclone exhaust(s), corrective action to minimize emissions shall be initiated as soon as practicable but no longer than 24 hours from the time of the observation, follower by an additional observation to confirm that emissions are reduced to normal.	e 335-3-1605(c)
	(c) The cyclone shall be physically inspected for proper maintenance at least annually, but more frequently whenever observed visible emissions greater than normal. If the result of the inspection indicate that the cleaning or maintenance in needed, such action shall be initiated within 24 hours of completing the inspection.	335-3-1605(c)
	(d) The permittee shall determine the 12-month rolling average by the 10 th of each month for the previous month and previous 12-months.	
5.	Recordkeeping and Reporting Requirements	
	(a) The permittee shall maintain records documenting it compliance with the production limitation required by Provis 3(d) of this permit.	
	(b) Should this source, at any time, exceed the limits for production, the permittee shall notify the Air Division within two (2) working days of determining that the exceedance occurred.	n
	(c) The permittee shall maintain records of emission monitoring performed in a permanent form suitable for inspection, upon request, and on-site for at least five (5) years from the date of generation of each record. These records shall include:	335-3-1605(c)

	Federally Enforceable Provisos	Regulations
1)	The date, time, and results of each daily observation for greater than normal visible emissions;	
2)	The date(s), time, nature, and results of any corrective action taken when greater than normal visible emissions were observed;	
3)	The date(s) and time the cyclone was inspected for proper operation and, if the results of the inspection indicated that cleaning or emissions-related maintenance was needed, the date(s) and nature of the cleaning/maintenance performed.	
4)	For any day that a visual observation is not conducted due to process not being operated the entire workday, the records should indicate the non-operational status for the day.	
as req 60 da (Noven	ermittee shall submit a Semiannual Monitoring Report, uired by General Permit Proviso No. 21(a), no later than ys after the end of each semiannual reporting period aber 30 th – May 29 th and May 30 th – November 29 th). The shall include the following information for this emission	ADEM Admin. Code r. 335-3-1605(c)
1)	A statement as to whether all observations for greater than normal visible emissions were completed as required during the reporting period, and if not, the date(s) and reason(s) why the monitoring was not performed;	
2)	A statement as to whether the annual inspection of the cyclones were accomplished during the reporting period, and if so, the date and results of the inspection;	
3)	The date(s), time, nature, and results of any corrective action taken when (1) greater than normal visible emissions were observed or (2) an inspection of the cyclones indicated that cleaning or emissions-related maintenance was needed.	
4)	This report shall include production records for the month and 12-month rolling average.	

Emission Unit No. 011 (Sawmill Operations) Summary Page

Description: 200 MMBF/yr Sawmill Operations (Includes Debarking and Sawing) with bottom discharge chipper

Permitted Operating Schedule:
$$\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$$

Emission Point No.	Description	Pollutant	Emission limit	Regulation
F-SAW	Fugitive Emissions (Sawmill Operations)	N/A	N/A	N/A
EU 006	Chipper Discharge	PM	E = $3.59(P)^{0.62}$ for P<30 TPH Or E = $17.31(P)^{0.16}$ for P≥30 TPH	ADEM Admin. Code r. 335-3-404
			Production Limit 200 MMBF per 12-month rolling average	ADEM Admin Code r. 335-3-1404

Emission Unit No. 011 (Sawmill Operations) Unit Specific Provisos

	Federally Enforceable Provisos	Regulations
1.	Applicability	
	This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2.	Emission Standards	
	(a) This process shall not discharge particulate emissions more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this process discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9	ADEM Admin. Code. r. 335-3-401
	(b) The permittee shall not cause or allow the emission of particulate matter in any one hour from each of these units in excess of the amount determined by the following equation:	ADEM Admin. Code r. 335-3-404
	$E = 3.59 \ P^{0.62} \ (P < 30 \ TPH)$	
	Or	
	$E = 17.31 \ P^{0.16} \ (P \ge 30 \ \text{TPH})$	
	where $E = \text{Emissions in pounds per hour}$	
	P = Process weight in tons per hour	
	(c) The permittee shall not cause or allow the production of the sawmill to exceed 200 MMBF per 12-month rolling average.	ADEM Admin. Code r. 335-3-1404
3.	Compliance and Performance Test Methods and Procedures	
	(a) If testing is required, the particulate emission rate from this process shall be determined in accordance with Method 5 at 40 CFR Part 60, Appendix A.	ADEM Admin. Code r. 335-3-105
	(b) If testing is required, the emissions of PM_{10} and $PM_{2.5}$ from this unit shall be determined in accordance with EPA Reference Methods 201A and 202.	ADEM Admin. Code r. 335-3-105
	(c) If testing is required, the emissions of total particulate matter from this unit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9	

	Federally Enforceable Provisos	Regulations
4.	Emission Monitoring	
	Within 10 days of the end of each calendar month, compliance with the production limitation shall be determined by calculating the total sawmill production for the previous calendar month and previous 12-month period.	ADEM Admin. Code r. 335-3-1404
5.	Recordkeeping and Reporting Requirements	
	(a) Records of total sawmill production shall be maintained on a monthly and 12-month rolling total basis in a permanent form suitable for inspection. The records shall be retained for a period of five (5) years from the date of generation of each record and be made available upon request.	ADEM Admin. Coder. 335-3-1605(c)
	(b) Should the sawmill production limitation be exceeded during any consecutive 12-month period, the permittee shall notify the Air Division within two (2) working days of determining that the exceedance occurred.	
	(c) The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (November 30 th – May 29 th and May 30 th – November 29 th).	ADEM Admin. Code r. 335-3-1605(c)

Emission Unit No. 012 (Emergency Generator) **Summary Page**

Description: 238 Brake Horsepower (bHp) John Deere Compression Ignition Diesel-fired Emergency Engine – Emergency Fire Pump

Emission Point No.	Description	Pollutant	Emission limit	Regulation
		НАР	N/A	40 CFR 63, Subpart ZZZZ
EU-012	Emangan ay Canaratan	NO_{x}	3.0 g/hp-hr	
EU-012	Emergency Generator	СО	2.6 g/hp-hr	40 CFR 60, Subpart IIII
		PM	0.15 g/hp-hr	

Emission Unit No. 012 (Emergency Generator) Unit Specific Provisos

		Federally Enforceable Provisos	Regulations
1.	<u>Ap</u>	plicability	
	(a)	This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	(b)	These units are subject to the applicable requirements of the 40 CFR 60, Subpart IIII, the Standards of Performance for Stationary Compression Ignition Internal Combustions Engines.	ADEM Admin. Code r. 335-3-1003(87); 40 CFR 60, Subpart A; 40 CFR 60, Subpart IIII
	(c)	This unit is an affected source under 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and the applicable requirements of 40 CFR 63, Subpart A, General Provisions.	ADEM Admin. Code r. 335-3-1106(103); 40 CFR 63, Subpart ZZZZ
2.	En	nission Standards	
	(a)	The permittee shall not cause or allow the emissions from these units to exceed the applicable emission standards in 40 CFR §89.112, specifically:	40 CFR §60.4205(c), Table 4 of Subpart IIII
		(i) The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO $_x$) shall not exceed 4.0 g/kW-hr (3.0 g/hp-hr);	
		(ii) Carbon monoxide emissions shall not exceed 3.5 g/kW-hr (2.6 g/hp-hr);	
		(iii) Particulate matter (PM) emissions shall not exceed 0.20 g/kW-hr (0.15 g/hp-hr);	
	(b)	The permittee shall operate and maintain this unit according to the manufacturer's written instructions over the entire life of engine.	40 CFR §60.4206, §60.4211(a)
3.	Co	mpliance and Performance Test Methods and Procedures	
	sha hou	thin 20 days of the end of each calendar month, the permittee all calculate the monthly and 12-month rolling total operating are for this engine for the previous month and the previous assecutive 12-month periods.	ADEM Admin. Code r. 335-3-1404

	Federally Enforceable Provisos	Regulations
4. <u>Em</u>	nission Monitoring	
(a)	In accordance with 40 CFR §60.4207, the permittee shall not burn any diesel fuel in this unit that does not meet the following per-gallon standards of 40 CFR §80.510(b):	40 CFR §60.4207, 40 CFR §80.510(b)
	(i) Sulfur content shall not exceed 15 parts per million (ppm); and	
	(ii) Cetane index shall be a minimum of 40 <u>or</u> the aromatic content shall not exceed 35 volume percent;	
	(iii) The engine shall be equipped with a non-resettable hour meter	
(b)	In accordance with 40 CFR §60.4211(f), the permittee shall only operate this unit as specified below:	40 CFR §60.4211(f)
	(i) Emergency situations; and	
	(ii) Maintenance checks and readiness testing not to exceed 100 hours per year.	
5. <u>Re</u>	cordkeeping and Reporting Requirements	
(a)	The permittee shall maintain a record of the monthly and 12-month rolling totals in a permanent form suitable for inspection. These records shall be retained on-site for a period of 5 years from the date of generation of each record.	
(b)	To demonstrate compliance with the fuel limitations, the permittee shall maintain records of the sulfur content and either the Cetane index or aromatic content of the diesel fuel that is burned in these units. These records shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.	