MAJOR SOURCE OPERATING PERMIT

PERMITTEE:	**WestRock CP, LLC**
FACILITY NAME:	**WestRock – Stevenson Mill**
FACILITY NO.:	705-0014
LOCATION:	STEVENSON, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 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:	DRAFT
Effective Date:	DRAFT
Expiration Date:	DRAFT

Alabama Department of Environmental Management

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General Permit Provisos

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1. Transfer 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 Rule 335-3-16-.13(1)(a)5.	Rule 335-3-16-.02 (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. 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.	Rule 335-3-16-.12 (2)
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, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	Rule 335-3-16-.05 (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.	Rule 335-3-16-.05 (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.	Rule 335-3-16-.05 (g)
5. Termination for Cause 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	Rule 335-3-16-.05 (h)

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of planned changes or anticipated noncompliance will not stay any permit condition.	
6. Property Rights	
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-16-.05 (i)
7. Submission of Information	
The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department 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 Department copies of records required to be kept by this permit.	Rule 335-3-16-.05 (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.	Rule 335-3-16-.05 (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.	Rule 335-3-16-.07 (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:	Rule 335-3-16-.07 (b)
(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment),	

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practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. <u>Compliance Provisions</u> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	Rule 335-3-16-.07 (c)
12. <u>Compliance Certification</u> A compliance certification shall be submitted no later than February 28th of each calendar year unless more frequent periods are specified according to the specific rule governing the source or required by the Department. (a) The compliance certification shall include the following: (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	Rule 335-3-16-.07 (e)

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and to: EPA through the Compliance and Emissions Data Reporting Interface (CEDRI) located on EPA's Central Data Exchange (CDX)	
13. Reopening for Cause Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit: (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.	Rule 335-3-16-.13 (5)
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), Code of Alabama 1975, as amended
15. Equipment Maintenance or Breakdown (a) In the case of shutdown for more than one (1) hour of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which	Rule 335-3-1-.07 (1) and (2)

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such equipment is intended to control. Such prior notice shall include, but is not limited to the following: (1) Identification of the specific emission unit and/or air pollution control equipment to be taken out of service as well as its location and equipment identification number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity 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 source 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. <u>Operation of Capture and Control Devices</u> 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), Code of Alabama 1975, as amended
17. <u>Obnoxious Odors</u> This permit is issued with the condition that, should obnoxious 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.	Rule 335-3-1-.08

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18. Fugitive Dust	
(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	Rule 335-3-4-.02
(b) Plant or haul roads and grounds will 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.	
19. Additions and Revisions	
Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.	Rule 335-3-16-.13 and .14
20. Recordkeeping Requirements	
(a) Records of required monitoring information of the source shall include the following:	Rule 335-3-16-.05 (c)2
(1) The date, place, and time of all sampling or measurements;	
(2) The date analyses were performed;	
(3) The company or entity that performed the analyses;	
(4) The analytical techniques or methods used;	

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(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. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.	
21. <u>Reporting Requirements</u> (a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. The reports shall be submitted within 60 days following the end of the six month period. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).	Rule 335-3-16-.05 (c)3
(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 will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. <u>Emission Testing Requirements</u> Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised. As allowed in MACT and other regulations, flexibility is provided to use alternative test methods, as approved by EPA, ADEM or permit condition.	Rule 335-3-1-.05 (3) Rule 335-3-1-.04 (1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter: (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which	Rule 335-3-1-.04

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sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	Rule 335-3-1-.04
All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division or an alternative time is specified by an applicable regulation.	
23. <u>Payment of Emission Fees</u>	
Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.	Rule 335-1-7-.04
24. <u>Other Reporting and Testing Requirements</u>	
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.	Rule 335-3-1-.04 (1)
25. <u>Title VI Requirements (Refrigerants)</u>	
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, and non-exempt substitutes as listed in 40 CFR Part 84 Appendix A, 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 and 40 CFR Part 84.106.	40 CFR Part 82 40 CFR Part 84

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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.No person shall knowingly vent or otherwise release any regulated non-exempt substitute refrigerant into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR 84.106 The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166 and 40 CFR 84.106. Reports shall be submitted to the US EPA and the Department as required.	
26. <u>Chemical Accidental Prevention Provisions</u> If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (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 Part 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.	40 CFR Part 68
27. <u>Display of Permit</u> 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 will be made readily available for inspection by any or all persons who may request to see it.	Rule 335-3-14-.01 (1)(d)
28. <u>Circumvention</u> No person shall cause or permit the installation or use of any device or any means which, without resulting in 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.	Rule 335-3-1-.10
29. <u>Visible Emissions</u> 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	Rule 335-3-4-.01 (1)

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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.	
30. <u>Fuel-Burning Equipment</u>	
(a) 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 Part 335-3-4-.03.	Rule 335-3-4-.03 Rule 335-3-5-.01
(b) 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 Part 335-3-5-.01.	
31. <u>Process Industries – General</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	Rule 335-3-4-.04
32. <u>Averaging Time for Emission Limits</u>	
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.	Rule 335-3-1-.05
33. Permit Shield	
A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.	Rule 335-3-16-.10

No. 1 Power Boiler
Informational Summary

Description: No. 1 Power Boiler

Emission Unit No: Z001

Installation Date: 1974 **Reconstruction/Modification Date:** 2012

Operating Capacity: 223 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z001	No. 1 Power Boiler	PM	$\leq$ 0.13 lbs/MMBtu heat input of filterable particulate matter	Rule 335-3-4-.03 (1)
Z001	No. 1 Power Boiler	SO_2	$\leq$ 0.2% fuel oil sulfur content	Rule 335-3-14-.04
Z001	No. 1 Power Boiler	Opacity	$\leq$ 20% except for one 6-min period per hour of $\leq$ 40%	Rule 335-3-4-.01

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.20	
Natural Gas		

No. 1 Power Boiler
Provisos

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Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler.	Rule 335-3-11-.06 (1) and (107)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.03 (1) for particulate matter.	Rule 335-3-4-.03 (1)
4. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
5. This source is subject to an ADEM Admin. Rule 335-3-14-.04 Prevention of Significant Deterioration (PSD) synthetic minor limit for sulfur dioxide.	Rule 335-3-14-.04
Emission Standards	
1. Filterable particulate matter emissions shall not exceed 0.13 pounds per million Btu heat input.	Rule 335-3-4-.03 (1)
2. This unit shall be classified as a Gas 1 Unit as defined in 40 CFR 63 Subpart DDDDD. In order to maintain this classification this unit is limited to firing liquid fuel for periodic testing of liquid fuel, maintenance, or operator training to a combined total of 48 hours during any calendar year. This limitation may be exceeded only during periods of gas curtailment or gas supply interruptions.	Rule 335-3-11-.06 (107)
3. This source shall only fire natural gas or No. 2 fuel oil. Fuel oil may only be fired during times of Natural Gas curtailment/interruption or for emissions testing purposes.	Rule 335-3-14-.04
4. The average fuel oil sulfur content shall not exceed 0.2 percent by weight.	Rule 335-3-14-.04
5. In accordance with ADEM Admin. Code 335-3-4-.01(1), opacity shall not exceed 20 percent as determined by a six-minute average except for one six-minute period per hour of not more than 40 percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity limit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. A particulate matter emissions test shall be performed each year that fuel oil is fired for greater than 48 hours during any calendar year.	Rule 335-3-16-.05
2. A continuous monitoring system to record the steam production rate in pounds per hour shall be installed, calibrated, maintained, and operated appropriately.	Rule 335-3-16-.05
3. For particulate matter periodic monitoring when burning fuel oil, if any three-hour block average steam production rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test	Rule 335-3-16-.05

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approved by the Department, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	
4. For sulfur dioxide periodic monitoring, obtain fuel oil certifications of the sulfur content in the fuel oil from every load received by the mill.	Rule 335-3-16-.05
5. For particulate matter and opacity periodic monitoring when the No. 1 Power Boiler is firing fuel oil, once per day (weather permitting), a one-minute visible emissions reading of plume opacity shall be made and recorded (4 readings taken approximately every 15 seconds) by a person trained in, but not necessarily certified by, EPA Reference Method 9. If the opacity (average of the 4 readings) appears to be above 15 percent, immediate action to identify and correct the cause of the visible emissions is to be taken. After corrective action has been taken, another one-minute observation shall be taken of the stack's opacity. If the opacity observed does not appear to be in excess of 15%, then no further action is needed. If visible emissions still appear to be in excess of 15%, a 6-minute visible emissions reading shall be conducted before the end of the day by a person certified in EPA Reference Method 9 to determine if the opacity is 20% or less. If the observed opacity is 20% or less, no further action is needed. If no Method 9 reading is conducted despite emissions appearing to be in excess of 15% after corrective action has been taken, the source shall be considered out of compliance with the particulate matter and opacity monitoring parameters for that day. If the required Method 9 reading is not taken due to weather conditions, one shall be taken the next day that weather conditions permit.	Rule 335-3-16-.05
6. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(12). Each annual tune-up must be conducted no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department each year that fuel oil is fired greater than 48 hours during any calendar year.	Rule 335-3-16-.05
2. Anytime fuel oil is fired, records of the visible emissions reading required under Emissions Monitoring Proviso 5 shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05
3. The records of the fuel oil vendor certifications of sulfur content in the fuel oil from every load received by the mill shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
4. Records of hours fuel oil fired in this unit shall be made and maintained on file available for inspection for at least five years	Rule 335-3-16-.05
5. Records of all three-hour block steam production rates, while burning fuel oil, shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
6. This source shall maintain the records required under 40 CFR 63.7555(a) concerning initial notifications. Records must be readily available for review according to 63.10(b)(1) for a period of 5 years.	Rule 335-3-11-.06 (107)

No. 1 Power Boiler
Provisos

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7. This source shall submit a compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be submitted at least once a year, postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

No. 3 Power Boiler
Informational Summary

Description: No. 3 Power Boiler

Emission Unit No: X019

Installation Date: 2013 **Reconstruction/Modification Date:** NA

Operating Capacity: 270 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X019	No. 3 Power Boiler	Filterable PM	Firing natural gas: PM: $\leq$ 0.50 lb/hr PM_{10}: $\leq$ 2.00 lb/hr $PM_{2.5}$: $\leq$ 2.00 lb/hr Firing No. 2 fuel oil: PM: $\leq$ 3.71 lb/hr PM_{10}: $\leq$ 4.26 lb/hr $PM_{2.5}$: $\leq$ 2.87 lb/hr	Rule 335-3-14-.04
X019	No. 3 Power Boiler	SO_2	$\leq$ 0.16 lb/hr while firing natural gas $\leq$ 52.65 lb/hr while firing No. 2 fuel oil	Rule 335-3-14-.04
X019	No. 3 Power Boiler	NO_x	$\leq$ 0.12 lb/MMbtu (30-day rolling average) while firing natural gas $\leq$ 0.20 lb/MMbtu (3-hour rolling average) while firing No. 2 fuel oil	Rule 335-3-14-.04 Rule 335-3-10-.02 (2)(b)
X019	No. 3 Power Boiler	CO	$\leq$ 11.99 lb/hr while firing natural gas $\leq$ 11.36 lb/hr while firing No. 2 fuel oil	Rule 335-3-14-.04
X019	No. 3 Power Boiler	Opacity	$\leq$ 20% except for one 6-min period per hour of $\leq$ 27%	Rule 335-3-10-.02 (2)(b)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.20	
Natural Gas		

No. 3 Power Boiler
Provisos

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Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(1) and (2)(b), 40 CFR 60 Subpart Db for particulate matter, sulfur dioxide, nitrogen oxides, and opacity.	Rule 335-3-10-.02 (1) and (2)(b)
3. This source is subject to the requirements of an ADEM Admin. Code 335-3-14-.04 Prevention of Significant Deterioration (PSD) synthetic minor limit for carbon monoxide, particulate matter, sulfur dioxide, and nitrogen oxides.	Rule 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR 63 Subpart DDDDD National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler with a continuous oxygen trim system that maintains an optimum air to fuel ratio.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed the following while firing natural gas: a. Filterable PM shall not exceed 0.50 lb/hr; b. Total PM_{10} shall not exceed 2.00 lb/hr; and c. Total $PM_{2.5}$ shall not exceed 2.00 lb/hr	Rule 335-3-14-.04
2. Particulate matter emissions shall not exceed the following while firing No. 2 fuel oil: a. Filterable PM shall not exceed 3.71 lb/hr; b. Total PM_{10} shall not exceed 4.26 lb/hr; and c. Total $PM_{2.5}$ shall not exceed 2.87 lb/hr	Rule 335-3-14-.04
3. Sulfur dioxide emissions shall not exceed 0.16 lb/hr while firing natural gas and 52.65 lb/hr while firing No. 2 fuel oil.	Rule 335-3-14-.04
4. Nitrogen Oxide emissions shall not exceed 0.12 lb/MMbtu (30-day rolling average) while firing natural gas and shall not exceed 0.20 lb/MMbtu (3-hour rolling average) while firing No. 2 fuel oil.	Rule 335-3-14-.04 Rule 335-3-10-.02 (2)(b)
5. Carbon monoxide emissions shall not exceed 11.99 lb/hr while firing natural gas and 11.36 lb/hr while firing No. 2 fuel oil.	Rule 335-3-14-.04
6. Opacity shall not be greater than 20 percent as determined by a six-minute average except for one six-minute period per hour of not more than 27 percent.	Rule 335-3-10-.02 (2)(b)
7. This unit shall be classified as a Gas 1 Unit as defined in 40 CFR 63 Subpart DDDDD. In order to maintain this classification this unit is limited to firing liquid fuel for periodic testing of liquid fuel, maintenance, or operator training to a combined total of 48 hours during any calendar year. This limitation may be exceeded only during periods of gas curtailment or gas supply interruptions	Rule 335-3-11-.06 (107)

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
8. This source shall only fire natural gas or No. 2 fuel oil. Fuel oil may only be fired during times of Natural Gas curtailment/interruption, equipment testing, or for emissions testing purposes.	Rule 335-3-14-.04
9. The fuel oil sulfur content shall not exceed 0.20 percent by weight.	Rule 335-3-14-.04
10. No more than 177,984 gal of No. 2 fuel oil shall be fired in this unit during any 12-month period.	Rule 335-3-14-.04
Compliance and Performance Test Methods and Procedures	
1. Compliance with the Filterable particulate matter emission limit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
2. Compliance with the $PM_{2.5}$ and PM_{10} emission limit shall be determined by EPA Test Method 201A and/or EPA Test Method 202.	Rule 335-3-16-.05 40 CFR 51 Appendix M
3. Compliance with the sulfur dioxide emission limit of this unit shall be determined by Reference Method 6 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
4. Compliance with the nitrogen oxide emission limit shall be determined by Reference Method 7E in Appendix A of 40 CFR Part 60 or by the continuous emissions monitoring system.	Rule 335-3-10-.03 (1)
5. Compliance with the carbon monoxide limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
6. Compliance with the opacity limit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.02 (2)(b)
Emission Monitoring	
1. A particulate matter emissions test shall be performed each year that fuel oil is fired for greater than 48 hours during any calendar year.	Rule 335-3-16-.05
2. A filterable particulate matter, total PM_{10}, and total $PM_{2.5}$ emissions test while burning natural gas shall be performed at least once every five years.	Rule 335-3-16-.05
3. A carbon monoxide emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
4. A continuous monitoring system to record the fuel heat input and stack oxygen value in percent oxygen shall be installed, calibrated, maintained, and operated appropriately.	Rule 335-3-16-.05
5. A continuous monitoring system to record the steam production rate in pounds per hour shall be installed, calibrated, maintained, and operated appropriately.	Rule 335-3-16-.05
6. For filterable particulate matter, total PM_{10}, and total $PM_{2.5}$ periodic monitoring if any three-hour block average steam production rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
7. A continuous monitoring system to record the nitrogen dioxide emission rates in pounds per million Btu fuel oil, or natural gas, heat input shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60.48b(e). This continuous emission monitoring system shall be subject to the quality control and quality assurance requirements of 40 CFR Chapter 1 Part 60 Appendix F.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
8. For carbon monoxide periodic monitoring, if any three-hour block average oxygen value is less than 75 percent of its respective average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
9. For sulfur dioxide periodic monitoring, obtain fuel oil certifications of sulfur content in the fuel oil from every load received by the mill.	Rule 335-3-10-.02 (2)(b)
10. For particulate matter and opacity periodic monitoring when the No. 3 Power Boiler is firing fuel oil, once per day (weather permitting), a one-minute visible emissions reading of plume opacity shall be made and recorded (4 readings taken approximately every 15 seconds) by a person trained in, but not necessarily certified by, EPA Reference Method 9. If the opacity (average of the 4 readings) appears to be above 15 percent, immediate action to identify and correct the cause of the visible emissions is to be taken. After corrective action has been taken, another one-minute observation shall be taken of the stack's opacity. If the opacity observed does not appear to be in excess of 15%, then no further action is needed. If visible emissions still appear to be in excess of 15%, a 6-minute visible emissions reading shall be conducted before the end of the day by a person certified in EPA Reference Method 9 to determine if the opacity is 20% or less. If the observed opacity is 20% or less, no further action is needed. If no Method 9 reading is conducted despite emissions appearing to be in excess of 15% after corrective action has been taken, the source shall be considered out of compliance with the particulate matter and opacity monitoring parameters for that day. If the required Method 9 reading is not taken due to weather conditions, one shall be taken the next day that weather conditions permit.	Rule 335-3-16-.05
11. Pursuant to 40 CFR 63.7510 (g), the facility must conduct a tune-up of the boiler as specified in 40 CFR 63.7540(a)(12) every five years. Each five-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department each year that fuel oil is fired for greater than 48 hours during any calendar year.	Rule 335-3-16-.05
2. A filterable particulate matter, total PM_{10}, and total $PM_{2.5}$ emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
3. A carbon monoxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
4. Anytime fuel oil is fired, records of the visible emissions reading required under Emissions Monitoring Proviso 10 shall be made and maintained on file available for inspection for a period of five years	Rule 335-3-16-.05
5. Per 40 CFR 60.49b(r)(1), the records of the fuel oil vendor certifications of sulfur content in the fuel oil from every load received by the mill shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-10-.02 (2)(b)
6. Records of all three-hour rolling average furnace oxygen values shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
7. Records of all three-hour block average steam production rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
8. Records of hours fuel oil fired in this unit shall be made and maintained on file available for inspection for at least five years	Rule 335-3-16-.05
9. A written report of excess SO_2 and NO_x emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. NO_x. The magnitude of excess emissions over 0.12 lb/MMBtu computed from daily averages. b. The percent sulfur and Btu content of any fuel deliveries. NOTE: See 40 CFR 60.49b(g) for itemized lists of NO_x information to be submitted.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
10. This source shall maintain the records required under 40 CFR 63.7555(a) concerning initial notifications. Under Recordkeeping and Reporting Requirements	Rule 335-3-11-.06 (107)
11. This source shall submit a five-year compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be submitted at least once every five years, postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

No. 1 Wood Fired Boiler
Informational Summary

Description: No. 1 Wood Fired Boiler

Emission Unit No: Z004

Installation Date: 1979 **Reconstruction/Modification Date:** 1985

Operating Capacity: 430 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 61 Subpart E
40 CFR 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z004	No. 1 Wood Fired Boiler	Filterable PM	≤ 0.10 lbs/MMBtu heat input	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
Z004	No. 1 Wood Fired Boiler	SO_2	≤ 0.2%fuel oil sulfur content ≤ 2,253,521 gal of fuel oil may be fired in any rolling 12-month period ≤ 40 tons/day of tire derived fuel may be fired	Rule 335-3-14-.04
Z004	No. 1 Wood Fired Boiler	NOx	≤ 0.7 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
Z004	No. 1 Wood Fired Boiler	NOx	Pursuant to the 40 CFR 60.44b(c), the combined annual capacity factor for natural gas and fuel oil shall be 10% or less where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas and fuel oil during a calendar year and the potential heat input to the unit had it been operated 8,760 hours of the maximum steady state design heat input	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04
Z004	No. 1 Wood Fired Boiler	CO	≤ 0.6 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
Z004	No. 1 Wood Fired Boiler	Opacity	≤ 20% except for one 6-min period per hour of ≤27%	Rule 335-3-10-.02 (2)(b)
Z004	No. 1 Wood Fired Boiler	Hg	7.05 lbs per 24-hour period	Rule 335-3-11-.02 (4)
Z004	No. 1 Wood Fired Boiler	Filterable PM	0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Z004	No. 1 Wood Fired Boiler	CO	3,500 ppm by volume on a dry basis corrected to 3% oxygen (3-run average), or 3.5 lb/MMBtu of steam output (based on 3-run average)	Rule 335-3-11-.06 (107)
Z004	No. 1 Wood Fired Boiler	HCl	0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
Z004	No. 1 Wood Fired Boiler	Hg	5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.20	
Natural Gas		
Biomass		
Tire Derived Fuel	2.0	
Creosote-Treated Railroad Ties		

No. 1 Wood Fired Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(1) and (2)(b), 40 CFR 60 Subpart Db for particulate matter, sulfur dioxide, nitrogen oxides, and opacity.	Rule 335-3-10-.02 (1) and (2)(b)
3. This source is subject to the requirements of an ADEM Admin. Code 335-3-14-.04 Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limit for particulate matter, sulfur dioxide, nitrogen oxides, and carbon monoxide.	Rule 335-3-14-.04 (9)
4. This source is subject to the applicable requirements of 40 CFR Chapter 1 Subchapter C Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	Rule 335-3-11-.02 (1) and (4)
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Filterable particulate matter emissions shall not exceed 0.10 pounds per million Btu heat input.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
2. The average fuel oil sulfur content shall not exceed 0.20 percent by weight and no more than 2,253,521 gallons of fuel oil may be fired in any rolling twelve-month period.	Rule 335-3-14-.04
3. Nitrogen oxide emissions shall not exceed 0.7 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)
4. Pursuant to the 40 CFR 60.44b(c), the combined annual capacity factor for natural gas and fuel oil shall be 10 percent or less, where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas and fuel oil during a calendar year and the potential heat input to the unit had it been operated 8,760 hours at the maximum steady state design heat input.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04
5. Carbon monoxide emissions shall not exceed 0.6 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)
6. Opacity shall not be greater than 20 percent as determined by a six-minute average except for one six-minute period per hour of not more than 27 percent.	Rule 335-3-10-.02 (2)(b)
7. No more than 40 tons per day of tire derived fuel may be fired.	Rule 335-3-14-.04 (9)
8. Mercury emissions shall not exceed 7.05 pounds per 24-hour period.	Rule 335-3-11-.02 (4)
9. This unit shall combust only biomass, tire derived fuel, natural gas, NCG's (M&A Gases), No. 2 fuel oil, and creosote-treated railroad ties generated on site. Biomass is defined as bark, wood, waste paper, secondary fiber processing rejects, and primary and secondary sludges from the mill's wastewater treatment plant.	Rule 335-3-14-.04 (9) 40 CFR 241.4

Federally Enforceable Provisos	Regulations
10. Creosote-treated railroad ties can comprise no more than 40% of the fuel used on an annual heat input basis.	40 CFR 241.4
11. As a surrogate for metal HAPs, filterable particulate matter emissions shall not exceed 0.44 lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
12. As a surrogate for organic HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output (based on 3-run average).	Rule 335-3-11-.06 (107)
13. Hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
14. Mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
15. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
16. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
17. The standards of 40 CFR 63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
18. Startup and shutdown procedures for this unit shall be followed in accordance with Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (107)
2. Compliance with the fuel oil sulfur content limit shall be determined in accordance with 40 CFR Part 60.47b.	Rule 335-3-10-.02 (2)(b)
3. Compliance with the nitrogen oxide limit shall be determined by Reference Method 7E in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
4. Compliance with the carbon monoxide limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
5. Compliance with the opacity limit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.02 (2)(b)
6. Compliance with the mercury limit shall be determined by Reference Method 101A or Reference Method 105 in Appendix B of 40 CFR Part 61, 40 CFR Part 60 Method 29, 30A, or 30B, or ASTM D6784. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.02 (4) Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
7. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter, sulfur dioxide, nitrogen oxide, and carbon monoxide periodic monitoring, if any 30-day average steam production rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the steaming rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. In accordance with 40 CFR 63.7525(d), a continuous monitoring system to monitor steaming rate shall be installed, operated, and maintained pursuant to §63.7500(a)(2) and Table 4. The facility shall maintain the 30-day rolling average steaming rate such that it does not exceed 110 percent of the highest hourly average recorded during the performance test.	Rule 335-3-11-.06 (107)
4. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average wet scrubber pressure drop, total liquid flow rate to the scrubber, or total inlet secondary electrical power to the WESP is less than the respective lowest 1-hour average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours. Operation below the established minimum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
5. For sulfur dioxide periodic monitoring, fuel receipts shall be obtained.	Rule 335-3-16-.05
6. The natural gas and fuel oil heat inputs in million Btus per calendar year shall be monitored.	Rule 335-3-10-.02 (2)(b)
7. The heat input of creosote-treated rail ties heat input as a percentage of the total heat input in million Btus per year shall be monitored.	Rule 335-3-16-.05
8. A nitrogen oxide emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
9. A carbon monoxide emissions test shall be performed at least once every five years	Rule 335-3-16-.05
10. For carbon monoxide periodic monitoring, if any three-hour block average furnace oxygen value is less than 75 percent of its respective average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
11. A continuous monitoring system for measuring the tons per day of tire derived fuel fed to the boiler shall be installed, calibrated, maintained and operated.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
12. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.	Rule 335-3-11-.02 (4)
13. In accordance with 40 CFR 63.7525(a), an oxygen analyzer system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained pursuant to 63.7500(a)(2) and Table 4. The 30-day rolling average oxygen level shall be set no lower than the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
14. A particulate matter, hydrogen chloride, mercury, and carbon monoxide performance test shall be performed within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the respective emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for the specific pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
15. The facility must demonstrate continuous compliance with each applicable emission limit, work practice standard, and operating limit of 40 CFR 63 Subpart DDDDD according to 63.7540(a) and Table 8.	Rule 335-3-11-.06 (107)
16. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(12). Each annual tune up must be conducted no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all 30-day rolling average WESP total secondary electrical power values shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
3. Records of all 30-day rolling average steam production rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
4. Records of all 30-day rolling average wet scrubber liquid flow rates and pressure drops shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
5. A record of the rolling 30-day average oxygen content shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
6. All fuel oil receipts from the fuel oil supplier shall certify sulfur content and shall be obtained and maintained for at least five years.	Rule 335-3-10-.02 (2)(b)
7. Reports shall be submitted to the Department annually certifying that only very low sulfur oil (No greater than 0.20 percent sulfur by weight) was combusted in the boiler during the reporting period.	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
8. Records of fuel oil usage in gallons per rolling 12-month period shall be made and maintained on file, available for inspection for a period of at least five years.	Rule 335-3-16-.05
9. Records of the amount of natural gas and fuel oil fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b)
10. Records of creosote-treated railroad tie usage as a percentage of the total heat input per rolling 12-month period shall be made and maintained on file, available for inspection for a period of at least five years.	Rule 335-3-16-.05
11. Records documenting that creosote-treated railroad ties are a listed non-waste under 40 CFR 241.4(a) shall be made and maintained on file available for inspection for a period of at least five years.	Rule 335-3-11-.06 (107)
12. A nitrogen oxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
13. A carbon monoxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
14. Records of the tons of tire derived fuel fired each day shall be maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
15. A site-specific monitoring plan shall be developed in accordance with 40 CFR Part 63.7505(d), kept on file, and be readily available for review.	Rule 335-3-11-.06 (107)
16. Pursuant to 40 CFR 63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to 63.7530 and Table 7.	Rule 335-3-11-.06 (107)
17. Pursuant to 40 CFR 63.7545(d), when conducting a performance test under Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
18. This source shall maintain all applicable records required under 40 CFR 63.7555. Records must be readily available for review according to 63.10(b)(1) for a period of 5 years.	Rule 335-3-11-.06 (107)
19. This source shall submit all applicable reports required under 40 CFR 63.7550 and Table 9.	Rule 335-3-11-.06 (107)

No. 2 Wood Fired Boiler
Informational Summary

Description: No. 2 Wood Fired Boiler

Emission Unit No: X015

Installation Date: 1997 **Reconstruction/Modification Date:** 1999
2006

Operating Capacity: 620 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 61 Subpart E
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X015	No. 2 Wood Fired Boiler	Filterable PM	≤ 0.03 lbs/MMBtu and/or ≤ 18.6 lbs/hr	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	SO_2	≤ 93 lbs/hr Sulfur Dioxide emissions shall not exceed the emission limit in parts per million on a rolling 3-hour average as measured by a continuous emission monitor as calculated by the following equation: $E_{ppmdry} = 1/Qs * 9,315,485$ Where: Qs — Stack Gas Flow Rate (Standard Dry Cubic Feet per Minute) from Department Approved Stack Test $E_{ppmdryt}$ — Emission Rate (Parts per Million) Note: This limit may only be re-established with Departmental approval.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	SO_2	≤ 0.2% fuel oil sulfur content	Rule 335-3-14-.04

			≤ 2,754,000 gal of fuel oil may be fired in any rolling 12-month period	
X015	No. 2 Wood Fired Boiler	NOx	≤ 0.25 lbs/MMBtu and/or ≤ 155.0 lbs/hr. Pursuant to the Code of Federal Regulations. Section 60.44b(c), the combined annual capacity factor for natural gas and fuel oil shall be 10% or less, where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas and fuel oil during a calendar year and the potential heat input to the unit had it been operated 8,760 hours at the maximum steady state design heat input	Rule 335-3-10-. (2)(b) Rule 335-3-14-.04
X015	No. 2 Wood Fired Boiler	CO	≤ 0.4 lbs/MMBtu and/or ≤ 248.0 lbs/hr	Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	VOC	≤ 0.03 lbs/MMBtu and/or ≤ 18.6 lbs/hr	Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	SAM	≤ 0.022 lbs/MMBtu and/or ≤ 13.6 lbs/hr	Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	Opacity	≤ 15% (6-min avg)	Rule 335-3-14-.04 (9)
X015	No. 2 Wood Fired Boiler	Hg	7.05 lbs/24-hour period	Rule 335-3-11-.02 (4)
X015	No. 2 Wood Fired Boiler	Filterable PM	0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
X015	No. 2 Wood Fired Boiler	CO	3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, (based on a 3-run average)	Rule 335-3-11-.06 (107)
X015	No. 2 Wood Fired Boiler	HCl	0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
X015	No. 2 Wood Fired Boiler	Hg	5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.20	
Natural Gas		
Biomass		
Tire Derived Fuel	2	
Creosote-Treated Railroad Ties		

No. 2 Wood Fired Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-. 02 (1) and (2) (b), 40 CFR 60 Subpart Db for particulate matter, sulfur dioxide, and nitrogen oxides.	Rule 335-3-10-.02 (1) and (2)(b)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-14-.04 Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, sulfuric acid mists and opacity.	Rule 335-3-14-.04 (9)
4. This source is subject to the applicable requirements of 40 CFR Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	Rule 335-3-11-.02 (1) and (4)
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Filterable particulate matter emissions shall not exceed the more stringent of 0.03 pounds per million Btu and 18.6 pounds per hour.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
2. Sulfur Dioxide emissions shall not exceed 93.0 pounds per hour.	Rule 335-3-14-.04 (9)
3. Sulfuric acid mist emissions shall not exceed the more stringent of 0.022 pounds per million Btu or 13.6 pounds per hour.	Rule 335-3-14-.04 (9)
4. No more than 2,754,000 gallons of No. 2 fuel oil (Maximum of 0.2 percent sulfur with maximum heat input of 320 million Btu per hour) shall be fired in any twelve-month period.	Rule 335-3-14-.04
5. Nitrogen oxide emissions shall not exceed the more stringent of 0.25 pounds per million Btu and 155.0 pounds per hour.	Rule 335-3-14-.04 (9)
6. Carbon monoxide emissions shall not exceed the more stringent of 0.4 pounds per million Btu and 248.0 pounds per hour.	Rule 335-3-14-.04 (9)
7. Volatile organic compound emissions shall not exceed the more stringent of 0.03 pounds per million Btu and/or 18.6 pounds per hour.	Rule 335-3-14-.04 (9)
8. Opacity shall not be greater than 15 percent based on a 6-minute block average.	Rule 335-3-14-.04 (9)
9. This unit shall combust only biomass, NCG's (M&A Gases), tire derived fuel, natural gas, No. 2 fuel oil, and creosote-treated railroad ties generated on site. Biomass is defined as bark, wood, waste paper, secondary fiber processing rejects, and primary and secondary sludges from the mill's wastewater treatment plant.	Rule 335-3-14-.04 (9) 40 CFR 241.4
10. In accordance with 40 CFR 60.44b(c), the combined annual capacity factor for natural gas and fuel oil shall be 10 percent or less, where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas and fuel oil during a calendar year and the potential heat	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04

Federally Enforceable Provisos	Regulations
input to the unit had it been operated 8,760 hours at the maximum steady state design heat input.	
11. Creosote-treated railroad ties can comprise no more than 40% of the fuel used on an annual heat input basis.	40 CFR 241.4
12. Sulfur Dioxide emissions shall not exceed the emission limit in parts per million on a rolling three hour (3) average as measured by a continuous emission monitor as calculated by the following equation: $E_{ppmdry} = 1/Qs * 9{,}315{,}485$ Where: Qs — Stack Gas Flow Rate (Standard Dry Cubic Feet per Minute) from Department Approved Stack Test $E_{ppmdryt}$ — Emission Rate (Parts per Million) Note: This limit may only be re-established with Departmental approval.	Rule 335-3-14-.04 (9)
13. Mercury emissions shall not exceed 7.05 pounds per 24-hour period.	Rule 335-3-11-.02 (4)
14. As a surrogate for metal HAPs, filterable particulate matter emissions shall not exceed 0.44 lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
15. As a surrogate for organic HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, (based on a 3-run average).	Rule 335-3-11-.06 (107)
16. Hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
17. Mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
18. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
19. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
20. The standards of 40 CFR 63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
21. Startup and shutdown procedures for this unit shall be followed in accordance with Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
2. Compliance with the sulfur dioxide emission limit shall be determined by Reference Method 6 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide limit shall be determined by Reference Method 7E in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
4. Compliance with the carbon monoxide limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Pat 60. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
5. Compliance with the volatile organic compound emission limit shall be determined by Reference Method 25, 25A, or 25B in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
6. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 8. If necessary, these rates shall be measured in accordance with the selective condensation method outlined in the National Council of the Paper Industry for Air and Stream Improvement, Inc. (NCASI) Atmospheric Quality Improvement Technical Bulletin No. 106, April, 1980.	Rule 335-3-10-.03 (1) Rule 335-3-16-.05
7. Compliance with the opacity limit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60 or the continuous opacity monitoring system (COMS).	Rule 335-3-10-.02 (2)(b)
8. Compliance with the mercury limit shall be determined by Reference Method 101A or Reference Method 105 in Appendix B of 40 CFR Part 61, 40 CFR Part 60 Method 29, 30A, or 30B, or ASTM D6784. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.02 (4) Rule 335-3-11-.06 (107)
9. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. A continuous monitoring system to record the opacity discharged from the unit which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1 shall be installed, operated, calibrated, and maintained.	Rule 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (107)
3. For particulate matter and opacity periodic monitoring, if the average of any ten consecutive six-minute opacity averages exceeds 10 percent the cause is to be investigated and appropriate action is to be taken.	Rule 335-3-16-.05
4. For particulate matter monitoring, if any 24-hour block average opacity exceeds 10 percent, the cause is to be investigated and appropriate action is to be taken.	Rule 335-3-11-.06 (107)
5. For particulate matter, nitrogen oxide, carbon monoxide, volatile organic compounds and sulfuric acid mists periodic monitoring, if any three-hour block average steam production rate is 110 percent of the average steam production rate set by the required complying periodic test or a complying emission test approved by the Department, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
6. In accordance with 40 CFR 63.7525(d), a continuous monitoring system to monitor steaming rate shall be installed, operated, and maintained pursuant to §63.7500(a)(2) and Table 4. The facility shall maintain the 30-day rolling average steaming rate such that it does not exceed 110 percent of the highest hourly average recorded during the performance test.	Rule 335-3-11-.06 (107)
7. A sulfur dioxide continuous emissions monitoring system which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 shall be installed, operated, calibrated, and maintained.	Rule 335-3-10-.02 (2)(b)
8. The sulfur dioxide continuous emission monitor shall meet the requirements of 40 CFR Part 60, Appendix F.	Rule 335-3-10-.02 (2)(b)
9. A nitrogen oxide emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
10. The quantity and heat input of fossil fuels fired shall be monitored.	Rule 335-3-10-.02 (2)(b)
11. The heat input of creosote-treated rail ties heat input as a percentage of the total heat input in million Btus per year shall be monitored.	Rule 335-3-16-.05
12. A carbon monoxide emissions test shall be performed at least once every five years	Rule 335-3-16-.05
13. A volatile organic compound emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
14. A sulfuric acid mist emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
15. For carbon monoxide and volatile organic compounds periodic monitoring, if any three-hour block average furnace oxygen percentage is less than 75 percent of the average furnace oxygen percentage set by required complying periodic test or a complying carbon monoxide or volatile organic compound emission test approved by the Department, the oxygen percentage is to be raised until compliance is successfully demonstrated at the lower rate.	Rule 335-3-16-.05
16. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.	Rule 335-3-16-.05
17. In accordance with 40 CFR 63.7525(a), an oxygen analyzer system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained pursuant to 63.7500(a)(2) and Table 4. The 30-day rolling average oxygen level shall be set no lower than the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
18. A particulate matter, hydrogen chloride, mercury, and carbon monoxide performance test shall be performed within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the respective emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for the specific pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
19. The facility must demonstrate continuous compliance with each applicable emission limit, work practice standard, and operating limit of 40 CFR 63 Subpart DDDDD according to 63.7540(a) and Table 8.	Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
20. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(12). Each annual tune-up must be conducted no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. A sulfuric acid mists emissions test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
3. The number of gallons of No. 2 fuel oil fired on a 12-month rolling basis shall be recorded and the record maintained on file available for inspection for at least 5 years.	Rule 335-3-16-.05
4. Records of all three-hour block and 30-day rolling average steam production rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107) Rule 335-3-16-.05
5. Records of all three-hour block and 30-day rolling average oxygen furnace percentages shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107) Rule 335-3-16-.05
6. All six-minute average opacities are to be continuously recorded and maintained in a form suitable for inspection for at least five years.	Rule 335-3-16-.05
7. Records of all 24-hour block average opacities shall be recorded and maintained in a form suitable for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
8. Records of all three-hour rolling average sulfur dioxide (SO_2) emissions shall be recorded and maintained in a form suitable for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
9. A written report of the excess opacity emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 15 percent, computed from six-minute averages (data recorded during periods of monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-10.-02 (2)(b) Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
10. A written report of the excess sulfur dioxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions, computed from 3-hour averages (data recorded during periods of monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-10-.02 (2)(b)
11. A nitrogen oxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
12. A carbon monoxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
13. A volatile organic compound emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
14. Records of the amount of natural gas and fuel oil fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
15. Records of the creosote-treated railroad tie usage as a percentage of the total heat input per rolling 12-month period shall be made and maintained on file available for inspection for a period of at least five years.	Rule 335-3-16-.05
16. Records documenting that creosote-treated railroad ties are a listed non-waste under 40 CFR 241.4(a) shall be made and maintained on file available for inspection for a period of at least five years.	Rule 335-3-11-.06 (107)
17. A record of the rolling 30-day average oxygen content shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
18. A site-specific monitoring plan shall be developed in accordance with 40 CFR Part 63.7505(d), kept on file, and be readily available for review.	Rule 335-3-11-.06 (107)
19. Pursuant to 40 CFR 63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to 63.7530 and Table 7.	Rule 335-3-11-.06 (107)
20. When conducting a performance test under 40 CFR 63 Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
21. This source shall maintain all applicable records required under 40 CFR 63.7555. Records must be readily available for review according to 63.10(b)(1) for a period of 5 years.	Rule 335-3-11-.06 (107)
22. This source shall submit all applicable reports required under 40 CFR 63.7550 and Table 9.	Rule 335-3-11-.06 (107)

Chemical Recovery System
Informational Summary

Description: Chemical Recovery System

Emission Unit No: X014

Installation Date: 1999 **Reconstruction/Modification Date:** 2001
2015

Operating Capacity: 1,700,000 lb/day BLS

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X014	Chemical Recovery System	Filterable PM	$\leq$ 0.036 gr/dscf at 8% O_2 & $\leq$ 43.8 lbs/hr	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	SO_2	$\leq$ 120 ppm at 8% O_2 (3-hr rolling average) & $\leq$ 170.0 lbs/hr	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	SO_2	$\leq$ 0.2% fuel oil sulfur content	Rule 335-3-10-.02 (2)(b)
X014	Chemical Recovery System	NOx	$\leq$ 120 ppm at 8% O_2 (30-day rolling average) & $\leq$ 72.92 lbs/hr.	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	NOx	$\leq$ 0.10 lb/MMBtu (30-day rolling average) while firing only natural gas or distillate oil $\leq$ 0.20 lb/MMBtu (30-day rolling average) while combusting natural gas or distillate oil in combination with black liquor solids	Rule 335-3-10-.02 (2)(b)
X014	Chemical Recovery System	CO	$\leq$ 200.0 ppm at 8% O_2 (30-day rolling average) & $\leq$ 87.50 lbs/hr	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	VOC	$\leq$ 50 ppm at 8% O_2 (3-hr rolling average) & $\leq$ 8.87 lbs/hr (as carbon)	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	TRS	$\leq$ 25 ppm at 8% O_2 (12-hr block average) & $\leq$ 18.8 lbs/hr	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	SAM	$\leq$ 5 ppm at 8% O_2 & $\leq$ 4.0 lbs/hr.	Rule 335-3-14-.04 (9)
X014	Chemical Recovery System	Opacity	$\leq$ 20% with one 6-minute period per hour $\leq$27%	Rule 335-3-10-.02 (2)(b)
X014	Chemical Recovery System	Gaseous Organic HAPs	The concentration of gaseous organic HAP, as measured by total hydrocarbons reported as carbon, discharged to the atmosphere shall be $\leq$ 1.49 kg/Mg (2.97 lb/ton) of	Rule 335-3-11-.06 (38)

			BLS fired; or shall be reduced by at least 90% prior to discharge of the gases to the atmosphere. Alternative monitoring parameter is 600.0 ppm CO corrected to 8 percent O_2.	

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.20	N/A
Black Liquor Solids		
Natural Gas		

Chemical Recovery System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, sulfuric acid mists, gaseous organic HAPs, and total reduced sulfur.	Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02(2)(b) New Source Performance Standards Subpart Db for opacity and sulfur dioxide when No. 2 Fuel Oil is fired.	Rule 335-3-10-.02 (1) and (2)(b)
4. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02(2)(b) New Source Performance Standards Subpart Db for nitrogen oxide emissions when No. 2 Fuel Oil or natural gas is fired.	Rule 335-3-10-.02 (1) and (2)(b)
5. This source is subject to the requirements of National Emission Standards for Hazardous Air Pollutants General Provisions as provided for in Table 1 of 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code R. 335-3-11-.06(38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Filterable particulate matter emissions shall not exceed the more stringent of 0.036 grains per standard dry cubic foot measured at 8 percent oxygen or 43.8 pounds per hour.	Rule 335-3-14-.04 (9)
2. Sulfur dioxide emissions shall not exceed the more stringent of 120 ppm at 8 percent oxygen (based on a 3-hour rolling average) and 170.0 pounds per hour.	Rule 335-3-14-.04 (9)
3. The fuel oil sulfur content shall not exceed 0.20 percent.	Rule 335-3-10-.02 (2)(b)
4. Pursuant to 40 CFR 60.44b(a)(1)(i), the unit (being classified as a Low Heat Release Rate Furnace is subject to the standard for nitrogen oxides of 0.10 lb/MMBtu (30-day rolling average basis) while combusting only natural gas or distillate oil. The unit is subject to the standard for nitrogen oxides of 0.20 lb/MMBtu (30-day rolling average basis) while combusting natural gas or distillate oil in combination with black liquor solids.	Rule 335-3-10-.02 (2)(b)
5. Such that the standards for Best Available Control Technology (BACT) shall be met, the following standards shall apply:	Rule 335-3-14-.04 (9)
6. Total reduced sulfur emissions shall not exceed the more stringent of 25 ppm at 8 percent oxygen (based on a 12-hour block average) and 18.8 pounds per hour.	Rule 335-3-14-.04 (9)
7. Sulfuric acid mists emissions shall not exceed the more stringent of 5 ppm at 8 percent oxygen and 4.0 pounds per hour.	Rule 335-3-14-.04 (9)
8. Opacity shall be no greater than 20 percent except for one six-minute period per hour of not more than 27 percent when No. 2 Fuel Oil is fired.	Rule 335-3-10-.02 (2)(b)

Pollutant	Rate based limit	Mass based limit
NOx	120 ppm @ 8% O_2 (30-day avg)	72.92 lb/hr
CO	200.0 ppm @ 8% O_2 (30-day avg)	87.50 lb/hr
VOC as C	50 ppm @ 8% O_2 (3-hr avg)	8.87 lb/hr

Federally Enforceable Provisos	Regulations
9. The concentration of gaseous organic HAP, as measured by total hydrocarbons reported as carbon, discharged to the atmosphere shall be less than or equal to 1.49 kg/Mg (2.97lb/ton) of black liquor solids fired; or the gaseous organic HAP emissions, as measured by total hydrocarbons reported as carbon, shall be reduced by at least 90 percent prior to discharge of the gases to the atmosphere.	Rule 335-3-11-.06 (38)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (38)
2. Compliance with the sulfur dioxide emission limits of this unit shall be determined by Reference Method 6 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide ppm emission limit shall be determined by the continuous emission monitoring system.	Rule 335-3-16-.05
4. Compliance with the nitrogen oxide lb/hr limit shall be determined by Reference Method 7E in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.02 (2)(b)
5. Compliance with the carbon monoxide limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60 or the continuous emissions monitor.	Rule 335-3-10-.03 (1)
6. Compliance with the volatile organic compound emission limit shall be determined by Reference Method 25, 25A or 25B in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
7. Compliance with the total reduced sulfur emission limits shall be determined in accordance with 40 CFR Part 60 Appendix A Method 16.	Rule 335-3-10-.03 (1)
8. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with the selective condensation method outlined in the National Council of the Paper Industry for Air and Stream Improvement, Inc. (NCASI) Atmospheric Quality Improvement Technical Bulletin No. 106, April, 1980.	Rule 335-3-16-.05
9. Compliance with the opacity limit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.02 (2)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per calendar year.	Rule 335-3-16-.05
2. A total reduced sulfur emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
3. A sulfur dioxide emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
4. A continuous nitrogen oxide emission monitoring system to record emission rates in ppm at 8 percent oxygen shall be installed, calibrated, operated, and maintained. This continuous emission monitoring system shall be subject to the quality control and quality assurance requirements of 40 CFR Part 60 Appendix B Specification 2 and Appendix F.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
5. For particulate matter, carbon monoxide, volatile organic compounds, and sulfuric acid mists periodic monitoring, if any three-hour block average black liquor solids firing rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Department, the black liquor solids firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	
6. For particulate matter periodic monitoring, if any three-hour block average ESP total power value is less than 90 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
7. The nitrogen oxide continuous emissions monitoring system shall be audited at least once per calendar quarter. A relative accuracy test audit shall be performed at least once every four calendar quarters. A cylinder gas audit may be performed in three of four calendar quarters but in no more than three quarters in succession.	Rule 335-3-14-.04 (9)
8. A volatile organic compound emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
9. A sulfuric acid mists emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
10. For carbon monoxide, volatile organic compounds and gaseous HAP periodic monitoring when firing black liquor, a continuous monitoring system to record carbon monoxide emission rates in parts per million at 8 percent oxygen shall be installed, calibrated, maintained, and operated. If any three-hour rolling average carbon monoxide emission rate is greater than the permit limit, corrective actions to reduce the carbon monoxide emission rate shall be taken within 24 hours.	Rule 335-3-11-.06 (38) Rule 335-3-14-.04 (9)
11. The facility has an approved alternative monitoring parameter to indicate compliance with gaseous organic HAP by not exceeding a CO concentration of 600.0 ppm corrected to 8 percent oxygen. A violation of the gaseous organic HAP standard shall occur when six or more 3-hour average values within any 6-month reporting period are outside this established parameter range. For purposes of determining the number of monitoring exceedances, no more than one exceedance will be attributed during any given 24-hour period.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per calendar year.	Rule 335-3-16-.05
2. A volatile organic compound emissions test report shall be submitted to the Department at least every 5 years.	Rule 335-3-16-.05
3. A sulfuric acid mists emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
4. Records of all three-hour block average black liquor solids firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
5. Records of all three-hour block average ESP total power values shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
6. Records of the amount of No. 2 Fuel Oil and natural gas fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
7. A sulfur dioxide emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
8. A written report of the nitrogen oxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 120 ppm at 8 percent oxygen, computed from 30-day rolling averages (data recorded during periods of nitrogen oxide monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
9. A written report of the carbon monoxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 200.0 ppm at 8 percent oxygen, computed from 30-day rolling averages (data recorded during periods of carbon monoxide monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-16-.05
10. A total reduced sulfur emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
11. The owner or operator of each affected source subject to the requirements of Subpart MM shall comply with the recordkeeping requirements of 40 CFR 63.10 of Subpart A, as shown in Table 1 of Subpart MM and the requirements specified in 40 CFR 63.866 and 63.867.	Rule 335-3-11-.06 (38)
12. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the black liquor firing rates in terms of tons/day or Mg/day.	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
13. Records and supporting documentation shall be kept for the compliance determinations, operating ranges, and parameter ranges established for this unit.	Rule 335-3-11-.06 (38)
14. Pursuant to 40 CFR Part 63, Subpart MM the facility must submit an Excess Emissions Report containing the information required in 40 CFR 63.10 (c), as well as the number and duration of occurrences when the 3-hour rolling average parameter value is outside the range established at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to 40 CFR 63.864(k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted. Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2). Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	Rule 335-3-11-.06 (38)
15. Pursuant to 40 CFR Part 60 Subpart Db, the unit is subject to the reporting and recordkeeping requirements of 40 CFR 60.49b.	Rule 335-3-10-.02 (2)(b)
16. Per the requirements listed in 335-3-14-.04 (17)(e)(3), the facility shall calculate and maintain a record of the unit's annual PM, $PM_{2.5}$, and H_2SO_4 emissions, in tons per year, on a calendar year basis, for a period of 10 years following the resumption of regular operations after the change applied for in the application dated March 2015.	Rule 335-3-14-.04
17. The facility shall submit a report to the Director within 60 days after the end of each year during which records must be generated under subparagraph ADEM Admin. Code 335-3-14-.04 (17)(e)(3). The report shall contain all the information required by ADEM Admin. Code 335-3-14-.04 (17)(e)(1), the name, address, and telephone number of the source, the annual emissions as calculated pursuant to ADEM Admin. Code 335-3-14-.04 (17)(e)(3) and any other information the owner or operator wishes to furnish.	Rule 335-3-14-.04

No. 1 & 2 Paper Machines
Informational Summary

Description: No. 1 & 2 Paper Machines

Emission Unit No: X010

Emission Unit	Installation Date:	Reconstruction/Modification Date:
No. 1 Paper Machine	1974	NA
No. 2 Paper Machine	1995	1998

Emission Unit:	Operating Capacity:	Operating Schedule:
No. 1 Paper Machine	150,000 lb/hr	8760 hours/year
No. 2 Paper Machine	150,000 lb/hr	8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X010	No. 1 & 2 Paper Machine	VOC	Work Practice Standard "Clean Water"	Rule 335-3-14-.04 (9)

No. 1 & 2 Paper Machines
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of an ADEM Admin. Code 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) "work practice standard" limit for volatile organic compounds.	Rule 335-3-14-.04 (9)
Emission Standards	
1. Such that the standards for Best Available Control Technology (BACT) shall be met, the volatile organic compound emissions shall be controlled by the use of mill supply water (cold mill water, and warm mill water), non-direct contact condensates, clean condensates, well water, demineralized water or white water as water sources for the paper machine and the following standards shall apply:	Rule 335-3-14-.04 (9)

Pollutant	Rate based limit	Mass based limit
VOC (No. 1 Paper Machine)	Use of Low VOC substances	350.58 tpy
VOC (No. 2 Paper Machine)	Use of Low VOC substances	355.40 tpy

Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Emission Monitoring	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional requirements other than those listed in the general provisos.	

No. 1 and No. 2 SCSC Continuous Digester System
Informational Summary

Description: No. 1 & 2 Sodium Carbonate Semi-chemical
(SCSC Continuous Digester System)

Emission Unit No: X016

Emission Unit	Installation Date:	Reconstruction/Modification Date:
No. 1 Digester	1974	NA
No. 2 Digester	1997	NA

Emission Unit:	Operating Capacity:	Operating Schedule:
No. 1 Digester	1,700 ODTP/day	8760 hours/year
No. 2 Digester	1,700 ODTP/day	8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X016	No. 1 & No. 2 Continuous Digesters System	TRS	Incineration	Rule 335-3-14-.04 (9)
X016	No. 1 & No. 2 Continuous Digester System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 1 and No. 2 SCSC Continuous Digester System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. Digesters 1 and 2 are subject to the requirements of ADEM Admin. Code 335-3-14-.04(9), Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limit for total reduced sulfur.	Rule 335-3-14-.04 (9)
3. Digesters 1 and 2 are subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S (See "Provisos for Pulping System Processes" and "Enclosures and Closed Vent Systems" for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For Digesters 1 and 2 all gases discharged that contain total reduced sulfur in excess of 5 parts per million shall be incinerated in one of the wood-fired boilers.	Rule 335-3-14-.04 (9)
2. See "Provisos for Pulping System Processes" and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See "Provisos for Pulping System Processes" and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For total reduced sulfur, periodic monitoring shall be performed at least once per day by mill personnel to determine if the gases are being incinerated as required and if the gases are not being incinerated, investigate and take corrective action within twenty-for hours.	Rule 335-3-16-.05
2. See "Provisos for Pulping System Processes" and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. At least once per day, records of whether or not total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05
2. For Digesters 1 and 2 see "Provisos for Pulping System Processes" and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

No. 1 Brown Stock Washer System
Informational Summary

Description: No. 1 Brown Stock Washer System

Emission Unit No: BSW01

Installation Date: 1974 **Reconstruction/Modification Date:** NA

Operating Capacity: 84,000 dry lbs/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X017	No. 1 Brown Stock Washer System	VOC	Incineration	Rule 335-3-16-.05

No. 1 Brown Stock Washer System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. All gases discharged that contain volatile organic compounds shall be collected in the HVLC M&A system and incinerated in one of the wood-fired boilers.	Rule 335-3-16-.05
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional requirements other than those listed in the general provisos	
Emission Monitoring	
1. For volatile organic compounds, periodic monitoring shall be performed at least once per day by mill personnel to determine if the gases are being incinerated as required and if the gases are not being incinerated, investigate and take corrective action within twenty-for hours.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. At least once per day, records of whether or not volatile organic compound gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05

No. 2 Brown Stock Washer System
Informational Summary

Description: No. 2 Brown Stock Washer System

Emission Unit No: X017

Installation Date: 1997 **Reconstruction/Modification Date:** NA

Operating Capacity: 84,000 dry lbs/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X017	No. 2 Brown Stock Washer System	TRS	Incineration	Rule 335-3-14-.04 (9)
X017	No. 2 Brown Stock Washer System	VOC	Incineration	Rule 335-3-14-.04 (9)
X017	No. 2 Brown Stock Washer System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 2 Brown Stock Washer System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 2 Brown Stock Washer System is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S (See “Provisos for Pulping System Processes” and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (1) and (18)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04 Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limit for volatile organic compounds and total reduced sulfur.	Rule 335-3-14-.04 (9)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million shall be incinerated in one of the wood-fired boilers.	Rule 335-3-14-.04 (9)
2. All gases discharged that contain volatile organic compounds shall be collected in the HVLC M&A system and incinerated in one of the wood-fired boilers.	Rule 335-3-14-.04 (9)
3. See “Provisos for Pulping System Processes” and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See “Provisos for Pulping System Processes” and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For volatile organic compounds and total reduced sulfur, periodic monitoring shall be performed at least once per day by mill personnel to determine if the gases are being incinerated as required and if the gases are not being incinerated, investigate and take corrective action within twenty-for hours.	Rule 335-3-16-.05
2. See “Provisos for Pulping System Processes” and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. At least once per day, records of whether or not volatile organic compounds and total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05
2. For the No. 2 Brown Stock Washer System see “Provisos for Pulping System Processes” and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)

Multiple Effect SCSC Evaporator System
Informational Summary

Description: Multiple Effect SCSC Evaporator System

Emission Unit No: X018

Installation Date: 1974 **Reconstruction/Modification Date:** 1998
2015

Operating Capacity: 70,850 lb/hr BLS

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X018	SCSC Evaporator System	TRS	Incineration	Rule 335-3-14-.04 (9)
X018	SCSC Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Multiple Effect SCSC Evaporator System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to an ADEM Admin. Code R. 335-3-14-.04 Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limit for total reduced sulfur.	Rule 335-3-14-.04 (9)
3. These sources are subject to Federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S (See "Provisos for Pulping System Processes" and "Enclosures and Closed Vent Systems" for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million on a dry basis corrected to 10% oxygen shall be incinerated in one of the wood-fired boilers.	Rule 335-3-14-.04 (9)
2. See "Provisos for Pulping System Processes" and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See "Provisos for Pulping System Processes" and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For total reduced sulfur, periodic monitoring shall be performed at least once per day by mill personnel to determine if the gases are being incinerated as required and if the gases are not being incinerated, investigate and take corrective action within twenty-for hours.	Rule 335-3-16-.05 (c)
2. See "Provisos for Pulping System Processes" and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. At least once per day, records of whether or not total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05 (c)
2. See "Provisos for Pulping System Processes" and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

Pulping System Processes
Informational Summary

Description: Pulping System Processes

Emission Unit No: S443

Installation Date: NA **Reconstruction/Modification Date:** NA

Operating Capacity: NA

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S443	Pulping System Processes (No. 1 & 2 Digester System, No. 2 Brown Stock Washer System, Evaporator System, and M&A System).	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to a control device that meets the following requirements: a) Reduce total HAP emissions using a Non-Condensable Gas Incinerator designed and operated at a minimum temperature of 871 ºC (1600 ºF) and a minimum residence time of 0.75 seconds; or b) Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.	Rule 335-3-11-.06 (18)
S443	Pulping System Processes (No. 1 & 2 Digester System, No. 2 Brown Stock Washer System, Evaporator System, and M&A System).	HAPs	The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Proviso 1(b)-(d).	Rule 335-3-11-.06 (18)
S443	Pulping System Processes (No. 1 & 2 Digester System, No. 2 Brown Stock Washer System, Evaporator System, and M&A System).	HAPs	The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emissions Standards Proviso 1(b) – (d).	Rule 335-3-11-.06 (18)

Pulping System Processes
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 40 CFR Part 63 Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For the No. 1 and 2 Digester Systems, the No. 2 Brown Stock Washer System, and Evaporator System per the requirements of 40 CFR Part 63 Subpart S, Low Volume High Concentration Gases and High Volume Low Concentration Gases, respectively shall be controlled by incineration in either of the wood-fired boilers. Periods of excess emissions reported under 40 CFR Part 63.455 shall not be a violation of 40 CFR Part 63.443(c) and (d) provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed the following levels: a. One percent for control devices used to reduce the total HAP emissions from the LVHC system; and b. Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and c. Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.	Rule 335-3-11-.06 (18)
2. Equipment systems listed in provisos 1 of this section shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirements specified in the following bullet. The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Proviso 1(b)-(d).	Rule 335-3-11-.06 (18)
3. The control device used to reduce total HAP emissions from each equipment system listed in provisos 1 of this section shall either or both: a. Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone. b. Reduce total HAP emissions using a thermal oxidizer designed and operated at a minimum temperature of 1600 degrees Fahrenheit and a minimum residence time of 0.75 seconds.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For the closed-vent system see the Emission Monitoring provisos for “Enclosures and Closed-Vent Systems”.	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. For the No. 1 and 2 Digester System, Evaporator System, the No. 2 Brown Stock Washing System, and each applicable enclosure opening, closed-vent system, and closed collection system, per the requirements of 40 CFR 63.443, the permittee shall meet the Recordkeeping and Reporting Requirements section of the "Enclosures and Closed-Vent Systems" provisos.	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Informational Summary

Description: Enclosures and Closed-Vent Systems

Emission Unit No: S450

Installation Date: NA **Reconstruction/Modification Date:** NA

Operating Capacity:

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S450	Enclosures and Closed-Vent Systems	HAPs	(a) Each enclosure and closed-vent system shall meet the requirements specified in bullets (b) through (d) of this section. (b) Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified 40 CFR 63.457(e). Each enclosure or hood opening closed during the initial performance test specified in 40 CFR 63.457(a) shall be maintained in the same closed and sealed position as during the performance test at all times except when necessary to use the opening for sampling, inspection, maintenance, or repairs. (c) Each component of the closed-vent system used to comply with 40 CFR 63.443(c), 63.444(b), and 63.445(b) that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in 40 CFR 63.457(d).	Rule 335-3-11-.06 (18)

			(d) Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in 40 CFR 63.443, 63.444, or 63.445 shall comply with either of the following requirements: (1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or (2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	

Enclosures and Closed-Vent Systems
Informational Summary

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For the No. 1 and 2 Continuous Digester Systems, Evaporator System, and the No. 2 Brown Stock Washing System per the requirements of 40 CFR Part 63 Subpart S each enclosure and closed vent system shall meet the requirements specified in provisos (2) through (4) of this section.	Rule 335-3-11-.06 (18)
2. Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified in 40 CFR 63.457(e). Each enclosure or hood opening closed during the initial performance test specified in 40 CFR 63.457(a) shall be maintained in the same closed and sealed position as during the performance test at all times except when necessary to use the opening for sampling, inspection, maintenance, or repairs.	Rule 335-3-11-.06 (18)
3. Each component of the closed-vent system used to comply with 40 CFR 63.443(c) that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in 40 CFR 63.457(d).	Rule 335-3-11-.06 (18)
4. Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in 40 CFR 63.443 shall comply with either of the following requirements: a. On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or b. For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. *Detectable leak procedures.* To measure detectable leaks for closed-vent systems as specified in 40 CFR 63.450, the owner or operator shall comply with the following: a. Method 21, of 40 CFR Part 60, appendix A; and	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
b. The instrument specified in Method 21 shall be calibrated before use according to the procedures specified in Method 21 on each day that leak checks are performed. The following calibration gases shall be used: i. Zero air (less than 10 parts per million by volume of hydrocarbon in air); and ii. A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 parts per million by volume methane or n-hexane.	
2. *Negative pressure procedures.* To demonstrate negative pressure at process equipment enclosure openings as specified in 40 CFR 63.450(b), the owner or operator shall use one of the following procedures: a. An anemometer to demonstrate flow into the enclosure opening; b. Measure the static pressure across the opening; c. Smoke tubes to demonstrate flow into the enclosure opening; or d. Any other industrial ventilation test method demonstrated to the Administrator's satisfaction.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. Each enclosure and closed-vent system used to comply with 40 CFR 63.450(a) shall comply with the requirements specified in bullets (a) through (f) of this section. a. For each enclosure opening, a visual inspection of the closure mechanism specified in 40 CFR 63.450(b) shall be performed at least once per calendar month with at least 21 days between inspections to ensure the opening is maintained in the closed position and sealed. b. Each closed-vent system required by 40 CFR 63.450(a) shall be visually inspected at least once per calendar month with at least 21 days between inspections and at other times as requested by the Administrator. The visual inspection shall include inspection of ductwork, piping, enclosures, and connections to covers for visible evidence of defects. c. For positive pressure closed-vent systems or portions of closed-vent systems, demonstrate no detectable leaks as specified in 40 CFR 63.450(c) measured initially and annually by the procedures in 40 CFR 63.457(d). d. Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in 40 CFR 63.457(e). e. The valve or closure mechanism specified in 40 CFR 63.450(d)(2) shall be inspected at least once each calendar month, with at least 21 days elapsed time between inspections to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line. f. If an inspection required by bullets (a) through (e) of this section identifies visible defects in ductwork, piping, enclosures or connections to covers required by 40 CFR 63.450, or if an instrument reading of 500 parts per million by volume or greater above background is measured, or if enclosure openings are not maintained at negative pressure, then the following corrective actions shall be taken as soon as practicable.	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
i. A first effort to repair or correct the closed-vent system shall be made as soon as practicable but no later than 5 calendar days after the problem is identified. ii. The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown.	
2. Each pulping process condensate closed collection system used to comply with 40 CFR 63.446(d) shall comply with the requirements specified in provisos 2(a) through 2(c) of this section. a. Each pulping process condensate closed collection system shall be visually inspected at least once each calendar month, with at least 21 days elapsed time between inspections and shall comply with the inspection and monitoring requirements specified in 40 CFR 63.964 of Subpart RR of 40 CFR Part 63, except: i. Owners or operators shall comply with the recordkeeping requirements of 40 CFR 63.454 instead of the requirements specified in 40 CFR 63.964(a)(1)(vi) and (b)(3) of Subpart RR of 40 CFR Part 63. ii. Owners or operators shall comply with the inspection and monitoring requirements for closed-vent systems and control devices specified in provisos (a) and (k) of 40 CFR 63.453 instead of the requirements specified in 40 CFR 63.964(a)(2) of Subpart RR of 40 CFR Part 63. b. Each condensate tank used in the closed collection system shall be operated with no detectable leaks as specified in 40 CFR 63.446(d)(2)(i) measured initially and annually by the procedures specified in 40 CFR 63.457(d). c. If an inspection required by this section identifies visible defects in the closed collection system, or if an instrument reading of 500 parts per million or greater above background is measured, then corrective actions specified in 40 CFR 63.964(b) of Subpart RR of 40 CFR Part 63 shall be taken.	Rule 335-3-11-.06 (18)
3. Any closed vent system, fixed roof cover, or enclosure is exempt from 30-Day and annual inspection, monitoring and repair requirements if the owner determines that personnel performing the inspection or repair would be exposed to an imminent or potential danger, or the equipment could not be inspected without elevating the inspection personnel more than 6 feet above a support surface. The site-specific monitoring plan must identify exempted equipment and describe how the equipment will be inspected and/or repaired during safe-to-inspect and/or repair periods which must be at least once during each permit term. As part of the site-specific monitoring plan the owner must provide their determination on why each piece of equipment, identified for exemption, has been so identified.	

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. The owner or operator of each affected source subject to the requirements of Subpart S shall comply with the recordkeeping requirements of 40 CFR 63.10 of Subpart A, as shown in Table 1 of Subpart S and the requirements specified in Provisos 2 and 3 of this section for the monitoring parameters specified in 40 CFR 63.453.	Rule 335-3-11-.06 (18)
2. For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment and shall record the following information for each inspection: a. Date of inspection; b. The equipment type and identification; c. Results of negative pressure tests for enclosures; d. Results of leak detection tests; e. The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection); f. The date the defect or leak was detected and the date of each attempt to repair the defect or leak; g. Repair methods applied in each attempt to repair the defect or leak; h. The reason for the delay if the defect or leak is not repaired within 15 days after discovery; i. The expected date of successful repair of the defect or leak if the repair is not completed within 15 days; j. The date of successful repair of the defect or leak; k. The position and duration of opening of bypass line valves and the condition of any valve seals; and l. The duration of the use of bypass valves on computer controlled valves.	Rule 335-3-11-.06 (18)
3. The owner or operator shall record the CMS parameters specified in 40 CFR 63.453 and meet the requirements specified in Proviso 1. of this section for any new affected process equipment that becomes subject to the standards in this subpart due to a process change or modification.	Rule 335-3-11-.06 (18)

RICE MACT UNITS
Informational Summary

Description: MT1020 Fire Pump Engine
MT1030 Fire Pump Engine

Emission Unit:	**Installation Date:**
MT1020	February 2006 (Model Year 2005)
MT1030	May 2003 (Model Year 2003)

Operating Capacity:	**HP:**	**Type:**	**Fuel:**
MT1020	292.34 hp	Compression	ULSD
MT1030	292.34 hp	Compression	ULSD

Operating Schedule:	**Calendar Year Limit:**	**Non-Emergency Use:**
MT1020	N/A	< 100/50 hours/year
MT1030	N/A	< 100/50 hours/year

These units contain equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart ZZZZ (All Units)

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
MT1020, MT1030	RICE Engines	Opacity	≤ 20% except for one 6-min period per hour ≤ 40%	Rule 335-3-4-.01 (1)
MT1020, MT1030	RICE Engines	HAPs	a. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.	Rule 335-3-11-.06 (103)
MT1020, MT1030	RICE Engines	HAPs	Per 40 CFR 63.6640(f)(1) maintenance checks and readiness testing is limited to 100 hours per year and non-emergency use is limited to 50 hours per year, which count towards the 100 hour per year limit provided for maintenance and testing. There is no time limit on usage in emergency situations.	Rule 335-3-11-.06 (103)

MACT UNITS
Informational Summary

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to the requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
3. All sources are subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in 40 CFR Part 63 Subpart ZZZZ as referenced in ADEM Admin. Code 335-3-11-.06 (103).	Rule 335-3-11-.06 (1) and (103)
Emission Standards	
1. For all units, opacity shall not exceed 20 percent as determined by a six-minute average except for one six-minute per hour of not more than 40 percent.	Rule 335-3-4-.01 (1)
2. All units shall comply with the emission limitations in 40 CFR 63 Subpart ZZZZ Table 2c(1): a. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.	Rule 335-3-11-.06 (103)
3. The facility must minimize engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. The emission standards in Table 2c of 40 CFR 63 Subpart ZZZZ apply to all times other than startup.	Rule 335-3-11-.06 (103)
Compliance and Performance Test Methods and Procedures	
1. The facility must demonstrate continuous compliance with the operating limitations in Tables 2c according to the methods specified in Table 6 (9) to 40 CFR 63 Subpart ZZZZ for all units	Rule 335-3-11-.06 (103)
2. Pursuant to 40 CFR 63.6640(f), there is no limit for use of the emergency stationary CI internal combustion engine units in emergency situations. Maintenance checks and readiness testing are limited to 100 hr/year. The unit may operate up to 50 hr/year in non-emergency situations, and these hours of use are counted towards the 100 hr/year time limit.	Rule 335-3-11-.06 (103)
3. All units and after-treatment control device (if any) shall be operated and maintained according to the manufacturer's emission-related written instructions, or the facility develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	Rule 335-3-11-.06 (103)
4. For these units, Method 9 as defined in 40 CFR 60, Appendix A, shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-4-.01 (2)

MACT UNITS
Informational Summary

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. The facility must install a non-resettable hour meter and monitor all applicable units according to the requirements of 40 CFR 63.6625(f).	Rule 335-3-11-.06 (103)
2. The facility shall monitor and collect data according to the requirements of 40 CFR 63.6635.	Rule 335-3-11-.06 (103)
Recordkeeping and Reporting Requirements	
1. The facility shall keep records of the operation of the applicable engines in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposes for a period of at least five years.	Rule 335-3-11-.06 (103)
2. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases 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.	Rule 335-3-11-.06 (103)
3. The facility shall keep records in accordance with 40 CFR 63.6655 for all units.	Rule 335-3-11-.06 (103)
4. If any of the existing units are reconstructed, the facility shall submit an Initial Notification.	Rule 335-3-11-.06 (103)

Sources Subject Only to the General Provisos
Informational Summary

Description:

Emission Unit No:

Installation Date: **Reconstruction/Modification Date:**

Operating Capacity:

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission limitations:

Description	Regulation
Woodyard	General Provisos
Emergency Black Liquor Storage Tank	General Provisos
Weak Black Liquor Storage Tank (4 Million Gallons)	General Provisos
Weak Black Liquor Storage Tank (150,000 Gallons)	General Provisos
48% Black Liquor Storage Tank	General Provisos
Blue 48% Black Liquor Tank	General Provisos
Black Liquor Dump Tank	General Provisos
No. 1 High Density Pulp Storage Chest	General Provisos
No. 2 High Density Pulp Storage Chest	General Provisos
No. 3 High Density Pulp Tower	General Provisos
Water Treatment	General Provisos
Wastewater Treatment	General Provisos
Wastepaper Processing	General Provisos

Fugitive Dust Plan
Informational Summary

Description: Fugitive Dust Plan

Emission Unit No: N/A

Installation Date: N/A **Reconstruction/Modification Date:** N/A

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Fugitive	Fugitive Dust	PM	N/A	Rule 335-3-4-.02

Fugitive Dust Plan
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. These sources are subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards (State Only)	
1. The facility shall take reasonable precautions as directed in Proviso 1 of "Compliance and Performance Test Methods and Procedures" below to prevent fugitive dust at the facility which travel beyond the facility property line and cause a nuisance.	Rule 335-3-4-.02
Compliance and Performance Test Methods and Procedures (State Only)	
1. The facility shall utilize the Facility Dust Plan submitted on June 6, 2025 (Appendix A), in order to minimize and address fugitive dust emissions.	Rule 335-3-16-.07
Emission Monitoring (State Only)	
1. The facility shall conduct weekly visual observations for fugitive dust in areas listed with potential to generate fugitive dust, considering factors such as naturally wet conditions. If visible emissions traveling beyond the facility property line are observed, any necessary corrective actions shall be initiated within 4 hours of observation.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements (State Only)	
1. The facility shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of Proviso 1 of "Emission Monitoring" of this Permit. This shall include problems observed and corrective actions taken. The records shall be retained for at least five years from the date of generation and shall be available upon request.	Rule 335-3-16-.05

SMURFIT WESTROCK STEVENSON MILL
Fugitive Dust Management Plan

Introduction

Smurfit Westrock, under the legal entity WestRock CP, LLC, operates a sodium carbonate semi-chemical (SCSC) pulp and paper mill in Stevenson, Jackson County, Alabama (Stevenson Mill), which is a major air emissions source under the Title V Major Source Operating Permit program and the Prevention of Significant Deterioration (PSD) permitting program. The Stevenson Mill operates under Title V Major Source Operating Permit No. 705- 0014 issued by the Alabama Department of Environmental Management (ADEM). This Fugitive Dust Management Plan has been developed at the request of ADEM to satisfy the objectives outlined below.

Plan Objectives

The Stevenson Mill's Fugitive Dust Management Plan will identify control measures and practices to minimize and manage fugitive dust from applicable sources where it is reasonably practical to do so. "Fugitive dust" can generally be defined as filterable particulate matter (PM) that enters the atmosphere without first passing through a stack or duct designed to direct or control its flow. The Fugitive Dust Management Plan defines the following:

- Procedures that Stevenson Mill personnel will follow to monitor and control PM emissions, where necessary.
- Steps that the Stevenson Mill will take to minimize fugitive dust emissions and demonstrate that corrective procedures are followed in the event that reasonably avoidable fugitive emissions are observed.

To meet these objectives, the Fugitive Dust Management Plan identifies the following:

- Potential sources of fugitive dust within the facility.
- Primary control measures and practices to manage and minimize fugitive emissions.

Identified Dust Sources	Primary Controls	Practices
Paved Roads	• Speed limit (paved roads) of 10 mph. • Dust suppression via water truck (normally five days per week except on days with precipitation).	Daily operation of water truck except on weekends and days with precipitation.
Unpaved Roads	• Speed limit (unpaved roads) of 10 mph. • Dust suppression via water truck (normally five days per week except on days with precipitation).	Daily operation of water truck except on weekends and days with precipitation.
Mobile Equipment/ Material Handling	• Primary clarifier sludge is normally conveyed directly to the wood fired boilers for combustion as fuel. • Boiler fly ash properly conditioned with water is loaded directly into dump trucks and stored on a pile for transfer to beneficial use customers. • Secondary sludge is normally blended with soil within 48 hours of generation.	Daily operation of water truck except on weekends and days with precipitation. The No. 2 Wood Fired Boiler Ash Conditioning System is checked as needed for proper functioning to ensure that the ash is not dry when discharged from the Ash Silo to trucks.
Storage Piles	• Bark is stored on the bark pile and is generally greater than 40% moisture. • Chip piles are comprised of green wood (typically greater than 40% moisture).	Use of water as dust suppressant on access roads, as necessary.