Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

Permitee:	**Resolute FP US Inc.**
Facility Name:	**Resolute FP US Inc. – Coosa Pines**
Facility No.:	309-0006
Location:	Coosa Pines, 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

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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 of planned changes or anticipated noncompliance will not stay any permit condition.	Rule 335-3-16-.05(h)
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)

General Permit Provisos

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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: (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), 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.	Rule 335-3-16-.07(b)
11. **Compliance Provisions** (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. **Compliance Certification** A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit. (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: EPA through the Compliance and Emissions Data Reporting Interface (CEDRI) located on EPA's Central Data Exchange (CDX) and to:	Rule 335-3-16-.07(e)

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Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	
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 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 such equipment is intended to control. The Department shall be notified when maintenance on the air pollution control equipment is complete and the equipment is operating. Such prior notice shall include, but is not limited to the following: (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and 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;	Rule 335-3-1-.07(1), (2)

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(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 for purposes of meeting applicable requirements. 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
18. <u>Fugitive Dust</u> Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc. 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: (a) 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; (b) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (c) By paving; (d) 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.	Rule 335-3-4-.02
19. <u>Additions and Revisions</u> 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

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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;	
(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. Reporting Requirements	
(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. Emission Testing Requirements	
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) and 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 sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	Rule 335-3-1-.04

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(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>	
(a) The permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-7-.04 according to the schedule in ADEM Admin. Code r. 335-1-7-.05.	Rule 335-1-7-.04
(b) The permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05.	Rule 335-1-7-.05
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, 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.	40 CFR Part 82
No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.	
The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	
26. <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:	40 CFR Part 68
(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.	
(b) The owner or operator shall submit one of the following:	

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(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 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.	
27. Display of Permit This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and 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. Circumvention 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. Visible Emissions Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4-.01(1)
30. Fuel-Burning Equipment (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
(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.	Rule 335-3-5-.01
31. Process Industries – General Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	Rule 335-3-4-.04
32. Averaging Time for Emission Limits Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	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

West Line Batch Digesters
Informational Summary

Description: 7 Batch Digesters
Pulp Mill

Emission Unit No: 001

Installation Date:		**Reconstruction / Modification Date:**
No. 1	June 1971	1997
No. 2	May 1975	1997
No. 3	June 1977	1997
No. 4	November 1976	1997
No. 5	March 1971	1997
No. 6	July 1972	1997
No. 12	December 2012	2012

Operating Capacity: 54,167 lb air-dry pulp/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 BB (Digester 12 only)
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Z013	West Line Batch Digesters 1-6 (State Only)	TRS	Incineration	Rule 335-3-5-.04 (5)
Z013	West Line Batch Digester 12	TRS	Incineration	Rule 335-3-10-.02 (28)
Z013	West Line Batch Digesters 1-6, 12	HAPs	Incineration	Rule 335-3-11-.06 (18)

West Line Batch Digesters 1-6 and 12
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. Digesters 1-6, & 12 are subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. Digesters 1-6, & 12 are 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 (See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements).	Rule 335-3-11-.06 (1) and (18)
3. Digester 12 is subject to federal New Source Performance Standards Subpart BB and 40 CFR 60 Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (28)
Emission Standards	
1. For Digester 12, 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 a recovery furnace or lime kiln subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. See Provisos for "Pulping System Processes", "Process Condensates", 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For total reduced sulfur periodic monitoring at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
2. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

West Line Batch Digesters 1-6 and 12
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. Digesters 1 through 6, are subject to the requirements of ADEM Admin. Code 335-3-5-.04 (5) total reduced sulfur from kraft pulp mill digester system.	Rule 335-3-5-.04 (5)
Emission Standards	
1. For Digesters 1 through 6, all gases discharged that contain total reduced sulfur in excess of 5 parts per million, corrected to ten percent oxygen, shall be incinerated subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (5)
Compliance and Performance Test Methods and Procedures	
1. No other provisions other than the General Permit Provisos apply.	
Emission Monitoring	
1. For total reduced sulfur periodic monitoring at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. 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)

East Line Batch Digesters
Informational Summary

Description: East Line Batch Digester
Pulp Mill

Emission Unit No: 002

Installation Date: December 1975 **Reconstruction / Modification date**: 1997

Operating Capacity: 63,000 lb air-dry pulp/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 BB (Digesters 7 – 10 only)
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Z036	East Line Batch Digester 11 (State Only)	TRS	Incineration	Rule 335-3-5-.04 (5)
Z036	East Line Batch Digesters 7-10	TRS	Incineration	Rule 335-3-10-.02 (28)
Z036	East Line Batch Digesters 7-11	HAPs	Incineration	Rule 335-3-11-.06 (18)

East Line Batch Digesters 7-11
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. Digesters 7-11 are subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. Digesters 7-10 are subject to federal New Source Performance Standards Subpart BB and 40 CFR 60 Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (28)
3. Digesters 7-11 are 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 (See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For Digesters 7-10 all gases discharged that contain total reduced sulfur in excess of 5 parts per million by volume on a dry basis, corrected to 10 percent oxygen, shall be incinerated subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. See Provisos for "Pulping System Processes", "Process Condensates", 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
2. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

East Line Batch Digesters 7-11
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. Digester 11 is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (5) total reduced sulfur from kraft pulp mill digester system.	Rule 335-3-5-.04 (5)
Emission Standards	
1. For Digester 11, all gases discharged that contain total reduced sulfur in excess of 5 parts per million, corrected to ten percent oxygen, shall be incinerated subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (5)
Compliance and Performance Test Methods and Procedures	
1. No other provisions other than the General Permit Provisos apply.	
Emission Monitoring	
1. For total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. 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)

Brown Stock Washer System
Informational Summary

Description: Brown Stock Washers
Pulp Mill

Emission Unit No: 003

Installation Date: 2000 **Reconstruction / Modification date**: NA

Operating Capacity: 117,167 lb air-dry pulp/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 BB
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
X045	Combined Brown Stock Washers	TRS	Incineration	Rule 335-3-10-.02 (28)
X045	Combined Brown Stock Washers	HAPs	Incineration	Rule 335-3-11-.06 (18)

Brown Stock Washer System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal New Source Performance Standards Subpart BB and 40 CFR Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (28)
3. 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 (See Provisos for "Pulping System Processes", "Process Condensates", 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 by volume on a dry basis, corrected to 10 percent oxygen, shall be incinerated subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. See Provisos for "Pulping System Processes", "Process Condensates", 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. For total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. 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)

B Chlorine Dioxide Generator
Informational Summary

Description: B Chlorine Dioxide Generator
Pulp Mill

Emission Unit No: 004

Installation Date: 1990 **Reconstruction / Modification date**: NA

Operating Capacity: 4,000 lb/hr ClO_2

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
X037B	Chlorine Dioxide Generator (State Only)	ClO_2	$\leq$ 0.1 lb/hr	Rule 335-3-16-.05
X037B	Chlorine Dioxide Generator (State Only)	Cl_2	$\leq$ 0.1 lb/hr	Rule 335-3-16-.05

B Chlorine Dioxide Generator
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	
Emission Monitoring	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	

B Chlorine Dioxide Generator
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. Chlorine emissions shall not exceed 0.1 pounds per hour if emissions from the chlorine dioxide solution storage tanks are not vented to the “D” Bleaching System scrubber.	Rule 335-3-16-.05
2. Chlorine dioxide emissions shall not exceed 0.1 pounds per hour if emissions from the chlorine dioxide solution storage tanks are not vented to the “D” Bleaching System scrubber.	Rule 335-3-16-.05
3. Emissions from the “B” chlorine dioxide generator must be vented to and controlled by the “D” bleachery scrubber when the generator is producing chlorine dioxide gas.	Rule 335-3-16-.05 (c)
Compliance and Performance Test Methods and Procedures	
1. Chlorine emissions shall be measured in accordance with the impinger capture technique described in the National Council of the Paper Industry for Air and Stream Improvement, Inc. Technical Bulletin No. 520, April, 1987.	Rule 335-3-16-.05 (c)
2. Chlorine dioxide emissions shall be measured in accordance with the impinger capture technique described in the National Council of the Paper Industry for Air and Stream Improvement, Inc. Technical Bulletin No. 520, April, 1987.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. For chlorine and chlorine dioxide, perform a compliance test at least once every five years.	Rule 335-3-16-.05 (c)
2. At least once daily, monitor whether the generator scrubber emissions are vented to the “D” Bleachery Scrubber or to atmosphere.	Rule 335-3-16-.05 (c)
3. At least once daily when venting the generator scrubber directly to atmosphere, record scrubber chilled water flow and temperature. If the flow is below or the temperature is above the average value set by 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 (c)
Recordkeeping and Reporting Requirements	
1. A chlorine and chlorine dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05 (c)
2. Maintain records of where the generator scrubber emissions are vented (D” Bleachery Scrubber or to atmosphere).	Rule 335-3-16-.05 (c)
3. When venting the generator scrubber directly to atmosphere, maintain records of daily scrubber chilled water flow and temperature, available for inspection for at least 5 years.	Rule 335-3-16-.05 (c)

Methanol Storage Tank
Informational Summary

Description: Methanol Storage Tank
Pulp Mill

Emission Unit No: 004

Installation Date: 1990 **Reconstruction / Modification date**: NA

Operating Capacity: 15,000 gallons

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
1518	Methanol Storage Tank	VOC	Submerged Fill	Rule 335-3-6-.03(2)

Methanol Storage Tank
Provisos

State Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of Rule 335-3-6-.03 (1) and (2) “Loading and Storage of VOC”.	Rule 335-3-6-.03 (2)
Emission Standards	
1. A submerged fill pipe is required for the Methanol Storage Tank.	Rule 335-3-6-.03 (2)(a)
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional requirements other than those listed in the General Permit Provisos.	
Emission Monitoring	
1. This source is subject to no additional requirements other than those listed in the General Permit Provisos.	
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional requirements other than those listed in the General Permit Provisos.	

D Bleaching System
Informational Summary

Description: D Bleaching System
Pulp Mill

Emission Unit No: 004

Installation Date: 1976 **Reconstruction / Modification date**: NA

Operating Capacity: 63,000 lb air-dry pulp/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
X037D	D Bleaching System (State Only)	ClO_2	$\leq$ 2.0 lb/hr	Rule 335-3-16-.05
X037D	D Bleaching System	Total chlorinated HAP or as Cl_2	Vented to a closed-vent system and routed to a control device.	Rule 335-3-11-.06 (18)
X037D	D Bleaching System	Total chlorinated HAP or as Cl_2	$\leq$ 10.0 ppm total chlorinated HAP.	Rule 335-3-11-.06 (18)

D Bleaching System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of 40 CFR Part 63 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. The equipment at each bleaching stage of the bleaching system where chlorinated compounds are introduced shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirement specified in proviso 3 of this section.	Rule 335-3-11-.06 (18)
2. See the Emission Standards provisos for “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
3. The control device used to reduce chlorinated HAP emissions (not including chloroform) from the equipment in this section shall achieve a treatment device outlet concentration of 10 parts per million or less by volume of total chlorinated HAP.	Rule 335-3-11-.06 (18)
4. To reduce chloroform emissions, the permittee shall comply with the effluent limitation guidelines specified in 40 CFR §63.445 (d)(1) or use no hypochlorite or chlorine for bleaching in the bleaching system.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See the Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
2. Compliance with the total chlorinated HAP emission limit shall be determined in accordance with the test method described in 40 CFR §63.457.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See the Emission Monitoring provisos for “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
2. A continuous monitoring system (CMS, as defined in 40 CFR 63 Subpart A General Provisions §63.2) shall be installed, calibrated, certified, operated, and maintained according to the manufacturer’s specifications. The CMS shall include a continuous recorder.	Rule 335-3-11-.06 (18)
3. The CMS shall be operated to measure the following parameters for each gas scrubber used to comply with the bleaching system requirements of 40 CFR §63.445 (c). a) The pH or the oxidation/reduction potential of the gas scrubber effluent; b) The gas scrubber liquid influent flow rate; and c) The bleach plant exhaust gas fan on/off status. (See March 7, 2002 EPA Region IV letter granting approval of alternative monitoring.)	Rule 335-3-11-.06 (18)
4. The D bleaching system scrubber shall be operated in accordance with the parameter value ranges established in accordance with 40 CFR §63.453 (n).	Rule 335-3-11-.06 (18)
5. Pursuant to §63.453 (q), at all times, the owner or operator 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 (18)
6. A performance test for HAPs as total chlorinated HAPs or as chlorine shall be performed within 60 months from the date of the previous performance test.	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. See the Recordkeeping and Reporting Requirements section of the "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. The owner or operator of this source shall comply with the recordkeeping and reporting requirements of 40 CFR 63, as shown in Table 1 of Subpart S.	Rule 335-3-11-.06 (18)
3. A performance test report for HAPs as total chlorinated HAPs or as chlorine shall be submitted to the Department at least once every 60 months.	Rule 335-3-11-.06 (18)

D Bleaching System
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. Chlorine dioxide emissions shall not exceed 2.0 pounds per hour.	Rule 335-3-16-.05
Compliance and Performance Test Methods and Procedures	
1. Chlorine dioxide emissions shall be measured in accordance with the impinger capture technique described in the National Council of the Paper Industry for Air and Stream Improvement, Inc. Technical Bulletin No. 520, April 1987.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. A chlorine dioxide emissions test shall be performed within 60 months from the date of the previous performance test.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. A chlorine dioxide emissions test report shall be submitted to the Department at least once every sixty months.	Rule 335-3-16-.05 (c)

E Bleaching System
Informational Summary

Description: E Bleaching System
Pulp Mill

Emission Unit No: 004

Installation Date: 1994 **Reconstruction / Modification date**: NA

Operating Capacity: 54,167 lb air-dry pulp/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
X037E	E Bleaching System (State Only)	ClO_2	$\leq$ 0.1 lb/hr	Rule 335-3-16-.05
X037E	E Bleaching System (State Only)	Cl_2	$\leq$ 0.1 lb/hr	Rule 335-3-16-.05
X037E	E Bleaching System	Total chlorinated HAP or as Cl2	Vented to a closed-vent system and routed to a control device.	Rule 335-3-11-.06 (18)
X037E	E Bleaching System	Total chlorinated HAP or as Cl_2	$\leq$ 10.0 ppm total chlorinated HAP.	Rule 335-3-11-.06 (18)

E Bleaching System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of 40 CFR Part 63 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. The equipment at each bleaching stage of the bleaching system where chlorinated compounds are introduced shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirement specified in proviso 3 of this section.	Rule 335-3-11-.06 (18)
2. See the Emission Standards provisos for "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
3. The control device used to reduce chlorinated HAP emissions (not including chloroform) from the equipment in this section shall achieve a treatment device outlet concentration of 10 parts per million or less by volume of total chlorinated HAP.	Rule 335-3-11-.06 (18)
4. To reduce chloroform emissions, the permittee shall comply with the effluent limitation guidelines specified in 40 CFR §63.445 (d)(1) or use no hypochlorite or chlorine for bleaching in the bleaching system.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See the Compliance and Performance Test Methods and Procedures provisos for "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. Compliance with the total chlorinated HAP emission limit shall be determined in accordance with the test method described in 40 CFR §63.457.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See the Emission Monitoring provisos for "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. A continuous monitoring system (CMS, as defined in 40 CFR 63 Subpart A General Provisions §63.2) shall be installed, calibrated, certified, operated, and maintained according to the manufacturer's specifications. The CMS shall include a continuous recorder.	Rule 335-3-11-.06 (18)
3. The CMS shall be operated to measure the following parameters for each gas scrubber used to comply with the bleaching system requirements of 40 CFR §63.445(c). a) The pH or the oxidation/reduction potential of the gas scrubber effluent; b) The gas scrubber liquid influent flow rate; and c) The bleach plant exhaust gas fan on/off status. (See March 7, 2002 EPA Region IV letter granting approval of alternative monitoring.)	Rule 335-3-11-.06 (18)
4. The E bleaching system scrubber shall be operated in accordance with the parameter value ranges established in accordance with 40 CFR §63.453 (n).	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
5. Pursuant to §63.453 (q), at all times, the owner or operator 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 (18)
6. A performance test for HAPs as total chlorinated HAPs or as chlorine shall be performed within 60 months from the date of the previous performance test.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. See the Recordkeeping and Reporting Requirements section of the "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. The owner or operator of this source shall comply with the recordkeeping and reporting requirements of 40 CFR Part 63, as shown in Table 1 of Subpart S.	Rule 335-3-11-.06 (18)
3. A performance test report for HAPs as total chlorinated HAPs or as chlorine shall be submitted to the Department at least once every 60 months.	Rule 335-3-11-.06 (18)

E Bleaching System
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. Neither chlorine dioxide nor chlorine emissions shall exceed 0.1 pounds per hour.	Rule 335-3-16-.05
Compliance and Performance Test Methods and Procedures	
1. Chlorine dioxide and chlorine emissions shall be measured in accordance with the impinger capture technique described in the National Council of the Paper Industry for Air and Stream Improvement, Inc. Technical Bulletin No. 520, April, 1987.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. Chlorine and chlorine dioxide emissions tests shall be performed within 60 months from the date of the previous performance test.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. A chlorine dioxide and chlorine emission test report shall be submitted to the Department at least once every sixty months.	Rule 335-3-16-.05 (c)

No. 3 Multiple Effect Evaporators
Informational Summary

Description: No. 3 Multiple Effect Evaporator
Chemical Recovery

Emission Unit No: 005

Installation Date: March 1976 **Reconstruction / Modification date**: NA

Operating Capacity: 158,333 lb BLS/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
Z031	Multiple Effect Evaporators (State Only)	TRS	Incineration	Rule 335-3-5-.04 (5)
Z031	Multiple Effect Evaporators	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 3 Multiple Effect Evaporators
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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. (See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.)	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. See Provisos for "Pulping System Processes", "Process Condensates", 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

No. 3 Multiple Effect Evaporators
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (5) total reduced sulfur from kraft pulp mill evaporator systems.	Rule 335-3-5-.04 (5)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million, corrected to ten percent oxygen, shall be incinerated subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (5)
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	
Emission Monitoring	
1. For total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
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)

Foul Condensate Stripper System
Informational Summary

Description: Foul Condensate Stripper System
Chemical Recovery

Emission Unit No: 006

Installation Date: 2000 **Reconstruction / Modification date**: NA

Operating Capacity: 225,000 lb condensate/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 BB
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
X048	Foul Condensate Stripper System	TRS	Incineration	Rule 335-3-10-.02 (28)
X048	Foul Condensate Stripper System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Foul Condensate Stripper System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of New Source Performance Standards 40 CFR 60 Subpart BB and 40 CFR 60 Subpart A.	Rule 335-3-10-.02 (1) and (28)
3. 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. (See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.)	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. All gases discharged from the Foul Condensate Stripper System that contain total reduced sulfur in excess of 5 parts per million on a dry basis corrected to 10% oxygen shall be incinerated in a recovery furnace or lime kiln subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5.	Rule 335-3-10-.02 (28)
2. See Provisos for "Pulping System Processes", "Process Condensates", 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", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. For total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
2. 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)

No. 3 Recovery Furnace
Informational Summary

Description: No. 3 Recovery Furnace
Chemical Recovery

Emission Unit No: 003

Installation Date: 1976 **Reconstruction / Modification date**: N/A

Operating Capacity: 158,333 lb BLS/hr or 1,900 tons BLS/day
378 MMbtu/hr on fossil fuels

Operating Schedule: 8760 hours/year.

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

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Z003	No. 3 Recovery Furnace	PM	$\leq$ 4.0 lb/ADTP	Rule 335-3-4-.07
Z003	No. 3 Recovery Furnace	PM	$\leq$ 0.044 gr/dscf at 8% O_2 and $\leq$ 85.6 lbs/hr	Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	TRS	$\leq$ 5 ppm at 8% O_2 and $\leq$ 6.0 lb/hr	Rule 335-3-5-.04 Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	Opacity	$\leq$ 35% (6-min average)	Rule 335-3-10-.02 (28) Rule 335-3-11-.06 (38)
Z003	No. 3 Recovery Furnace	SO_2	$\leq$ 75 ppm at 8% O_2 and $\leq$ 169.6 lbs/hr	Rule 335-3-14-.04 (9)
Z003	No. 3 Recovery Furnace	NO_x	$\leq$ 125 ppm at 8% O_2 and $\leq$ 203.2 lbs/hr	Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	CO	$\leq$ 285 ppm at 8% O_2 and $\leq$ 281.9 lbs/hr	Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	VOC	$\leq$ 70 ppm at 8% O_2 and $\leq$ 29.7 lbs/hr	Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	SAM	$\leq$ 0.06 lbs/ton of BLS and $\leq$ 4.8 lbs/hr	Rule 335-3-14-.04
Z003	No. 3 Recovery Furnace	HAPs	PM as a surrogate $\leq$ 0.044 gr/dscf at 8% O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas	N/A	N/A

No. 3 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of Rule 335-3-4-.07 particulate emissions from kraft pulp mills.	Rule 335-3-4-.07
3. This source is subject to the applicable requirements of Rule 335-3-10-.02 (28) such that the opacity limit is the same as the New Source Performance Standards subpart BB for kraft recovery furnaces.	Rule 335-3-14-.04 Rule 335-3-10-.02 (1) and (28)
4. This Source is subject to the requirements of ADEM Admin. Code 335-3-14-.04 (9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for sulfur dioxide.	Rule 335-3-14-.04 (9)
5. This source is subject to the requirements of ADEM Admin. Code 335-3-14-.04 for prevention of significant deterioration synthetic minor limits for nitrogen oxide, carbon monoxide, volatile organic compounds, and sulfuric acid mists.	Rule 335-3-14-.04
6. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM.	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Pursuant to 40 CFR Part 63, Subpart MM, as a surrogate for HAPs, particulate matter emissions shall not exceed 0.044 grains per standard dry cubic foot at 8% oxygen.	Rule 335-3-11-.06 (38)
2. Particulate matter emissions shall not exceed 0.044 grains per standard dry cubic foot at 8% oxygen and shall not exceed 85.6 pounds per hour.	Rule 335-3-14-.04
3. Particulate matter emissions shall not exceed 4.0 pounds per air dried tons of pulp from the recovery furnace.	Rule 335-3-4-.07
4. Opacity shall not exceed 35 percent (6-min average) and shall not exceed 35 percent for 2 percent or more of the operating time when spent pulping liquor is fed within any semiannual period.	Rule 335-3-11-.06 (38)
5. Sulfur Dioxide emissions shall not exceed 75 parts per million at 8% oxygen and shall not exceed 169.6 pounds per hour.	Rule 335-3-14-.04 (9)
6. Nitrogen Oxide emissions shall not exceed 125 parts per million at 8% oxygen and shall not exceed 203.2 pounds per hour.	Rule 335-3-14-.04
7. Carbon Monoxide emissions shall not exceed 285 parts per million at 8% oxygen and shall not exceed 281.9 pounds per hour.	Rule 335-3-14-.04
8. The facility shall not fire more than 637 million standard cubic feet of natural gas per year (12-month rolling average).	Rule 335-3-14-.04
9. VOC emissions shall not exceed 70 parts per million at 8% oxygen and shall not exceed 29.7 pounds per hour.	Rule 335-3-14-.04
10. Total reduced sulfur emissions shall not exceed 5 parts per million by volume, dry, corrected to 8% oxygen, and shall not exceed 6.0 pounds per hour.	Rule 335-3-5-.04 Rule 335-3-14-.04
11. Sulfuric acid mists shall not exceed 0.06 pounds per ton of black liquor solids and shall not exceed 4.8 pounds per hour.	Rule 335-3-14-.04

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 (3-hour average).	Rule 335-3-16-.05 (c)
2. Compliance with the opacity limit shall be determined by a continuous opacity monitoring system (COMS) installed, calibrated, and maintained in accordance with Performance Specification 1 (PS-1) in Appendix B to 40 CFR Part 60 and the provisions in 40 CFR §63.6 (h), §63.8, and §63.864 (d).	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
3. Compliance with the sulfur dioxide limit shall be determined by the 40 CFR Part 60 Method 6 or 6C (3-hour average).	Rule 335-3-16-.05 (c)
4. Compliance with the nitrogen oxides limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 7 or 7E (3-hour average).	Rule 335-3-16-.05 (c)
5. Compliance with the VOC limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 25, 25A, or 25B (as carbon, 3-hour average).	Rule 335-3-16-.05 (c)
6. Compliance with the sulfuric acid mist limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 8 or CTM 13A (3-hour average).	Rule 335-3-16-.05 (c)
7. Compliance with the carbon monoxide limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 10 (3-hour average).	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05 (c)
2. A continuous opacity monitor shall be installed, calibrated, operated, and maintained. Pursuant to 40 CFR Part 63, Subpart MM, the COMS shall meet the provisions of §63.6 (h), §63.8, and §63.864 (d)(1) through (d)(4).	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
3. A sulfur dioxide, nitrogen oxides, carbon monoxide, VOC, and sulfuric acid mist stack test shall be performed at least once per five-year cycle.	Rule 335-3-16-.05
4. For particulate matter and opacity periodic monitoring when the COMS is available, if the average of any ten consecutive six-minute opacity averages exceeds 20 percent the cause is to be investigated and appropriate corrective action is to be taken.	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
5. For particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, and sulfuric acid mists periodic monitoring, if any three-hour block average liquor 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 Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
6. As specified in §63.8 (g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level adjustments shall not be included in any data average computed under 40 CFR 63, Subpart MM.	Rule 335-3-11-.06 (38)
7. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every five years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
8. The facility must maintain proper operation of the ESP's automatic voltage control (AVC).	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. Records of all three-hour block average liquor-firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)
2. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05 (c)
3. A sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, and sulfuric acid mist emissions test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05 (c)
4. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity, and when a violation is noted when opacity is greater than 35 percent for 2 percent or more of the operating time within any semiannual period.	Rule 335-3-11-.06 (38)
5. 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)
6. The facility shall maintain records of all 6-minute periods when the opacity is greater than 35%.	Rule 335-3-16-.05 (c)
7. 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)

Federally Enforceable Provisos	Regulations
8. Pursuant to 40 CFR Part 63, Subpart MM the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in §63.867 (c), including the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity when spent pulping liquor is fed, and when the opacity is greater than 35 percent for 2 percent or more of the operating time within any semiannual period. 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 §63.864 (k)(2) occurred, information from both the Summary Report and the Excess Emissions Report must be submitted. The reports will include the following information: The magnitude of emissions greater than 35 percent computed on a six-minute average (data recorded during periods of opacity monitor breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). The date and time of commencement and completion of each time period of excess emissions. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. The date and time identifying each period during which the opacity monitor was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. When no excess emissions have occurred and the opacity monitor was not inoperative or did not require repairs or adjustments, such information will be stated in the report. Excess Emissions and Summary Reports must be reported electronically via CEDRI per §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)
9. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years. These records shall include any period when operating parameter levels were inconsistent with levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred the time the corrective action was initiated and completed, and the corrective action taken.	Rule 335-3-16-.05 (c)
10. The facility shall record and maintain records of the amounts of natural gas combusted during each day and calculate a 12-month rolling average based on the total amount combusted at the end of each calendar month. These records shall be made available and maintained on file available for review for at least five years.	Rule 335-3-16-.05 (c)
11. The facility must maintain records demonstrating compliance with the requirement in §63.864 (e)(1) to maintain proper operation of an ESP's AVC.	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
12. Pursuant to §63.866 (d), the facility must also maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.	Rule 335-3-11-.06 (38)

No. 3 Recovery Furnace
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-5-.04 (4) total reduced sulfur from kraft pulp mills.	Rule 335-3-5-.04 (4)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 5 parts per million corrected to 8 percent oxygen averaged over discrete twelve-hour periods. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (4)
2. In accordance with 40 CFR Part 60, Subpart BB, this unit's opacity shall not exceed 35 percent for 6 percent or more of the operating time within any quarterly period.	Rule 335-3-10-.02 (28)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitor, 40 CFR Part 60 Method 16, 16A or 16B.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. A total reduced sulfur (TRS) continuous emission monitor shall be installed, calibrated, maintained and operated in accordance with 40 CFR §60.284, except that monitoring spans may be approved by the Director.	Rule 335-3-5-.04 (8)
2. A total reduced sulfur (TRS) continuous emissions monitoring system which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 5 shall be installed, operated, calibrated, and maintained.	Rule 335-3-5-.04 (8)
Recordkeeping and Reporting Requirements	
1. A report of excess total reduced sulfur 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 5 parts per million adjusted to 8 percent oxygen and over computed from twelve-hour averages (data recorded during periods of total reduced sulfur emission 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 total reduced sulfur emission 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 total reduced sulfur emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-5-.04 (9)

State Only Enforceable Provisos	Regulations
2. A report of 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 emissions greater than 35 percent computed on a six-minute average (data recorded during periods of opacity monitor 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 opacity monitor 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 opacity monitor was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-16-.05 (c)

No. 3 Smelt Dissolving Tank
Informational Summary

Description: No. 3 Smelt Tank
Chemical Recovery

Emission Unit No: 008

Installation Date: 1976 **Reconstruction / Modification date**: N/A

Operating Capacity: 158,333 lb BLS/hr or 1,900 tons BLS/day

Operating Schedule: 8760 hours/year.

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

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Z006	No. 3 Smelt Tank	PM	$\leq$ 0.5 lb/air dried ton of pulp	Rule 335-3-4-.07 (2)(b)
Z006	No. 3 Smelt Tank	HAPs	PM as a surrogate $\leq$ 0.2 lb/ton of BLS	Rule 335-3-11-.06 (38)
Z006	No. 3 Smelt Tank	TRS	$\leq$ 0.033 lb/ton of BLS	Rule 335-3-5-.04 (7)
Z006	No. 3 Smelt Tank	Opacity	$\leq$ 20 percent with one six-minute period up to 40 percent in any one hour period	Rule 335-3-4-.01 (1)

No. 3 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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 335-3-4-.07 (2)(b) particulate matter from kraft pulp mill smelt tanks.	Rule 335-3-4-.07 (2)(b)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 (1) for opacity.	Rule 335-3-4-.01 (1)
4. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.2 pounds per ton of black liquor solids fired.	Rule 335-3-11-.06 (38)
2. Particulate matter emissions shall not exceed 0.5 pound per air-dry ton of pulp produced.	Rule 335-3-4-.07 (2)(b)
3. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60.	Rule 335-3-16-.05 (c)
2. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05 (c)
2. A continuous parameter monitoring system (CPMS) shall be properly installed, calibrated, maintained, and operated in such a way as to determine and record the scrubbing liquid flow rate and scrubber fan amperage at least once every 15-minute periods using procedures in §63.8 (c). • The monitoring device used for continuous measurement of the scrubbing liquid flow rate must be certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate. • As an alternative to pressure drop measurement, a monitoring device for measurement of fan amperage may be used for smelt dissolving tank dynamic scrubbers that operate at ambient pressure or for low-energy entrainment scrubbers where the fan speed does not vary. • This unit shall not have 6 or more 3-hour average parameter values within any 6-month reporting period that are below the minimum operating limits established in accordance with §63.864 (j) during times when spent pulping liquor is fed. • No more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
3. For particulate matter periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its value set by a required periodic test that	Rule 335-3-16-.05 (c)

Federally Enforceable Provisos	Regulations
showed compliance or a test approved by the Department that showed compliance, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	
4. For particulate matter periodic monitoring, if any three-hour block average wet scrubber weak wash flow rate is less than 90 percent of its respective average value set by 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 (c)
5. As specified in §63.8 (g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level adjustments shall not be included in any data average computed under 40 CFR 63, Subpart MM.	Rule 335-3-11-.06 (38)
6. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every five years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05 (c)
2. Records of all three-hour block average liquor firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)
3. Records of all three-hour block average wet scrubber weak wash flow rates and fan amperages shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)
4. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05 (c)
5. 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)
6. In accordance with 40 CFR Part §63.866 (b), the facility must maintain records of any occurrence when corrective action is required (when a three-hour average flow rate or fan amperage is below the minimum operating limit established according to §63.864 (j) during times when spent pulping liquor is fed), and when a violation is noted (when six or more three-hour average flow rate or fan amperage values within any 6-month reporting period are below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed). For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period. The facility must also maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit for each failure to meet an operating limit. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.	Rule 335-3-11-.06 (38)
7. In accordance with §63.866(c), the facility shall maintain the following records in addition to the general records required by §63.10(b)(2): • Maintain records of parametric monitoring data required under §63.864, including any period when the three-hour average flow rate or fan amperage values were inconsistent with the levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, and the time corrective action was initiated and completed, corrective action taken. • Maintain records and documentation of supporting calculations for compliance determination made under §63.865 (a) through (d).	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
• Maintain the records of the monitoring parameter ranges for the scrubber flow rates and fan amperage.	
8. In accordance with 40 CFR Part 63, Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in §63.867 (c), including the number and duration of three-hour averages when the flow rate or pressure drop were below the minimum operating limit during times when spent pulping liquor is fed. 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 §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 §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)

No. 3 Smelt Tank
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (7) total reduced sulfur from kraft pulp mill smelt tanks.	Rule 335-3-5-.04 (7)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 0.033 pounds per ton of black liquor solids. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (7)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A, or 16B.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. A total reduced sulfur emission test shall be performed at least once per five-year cycle to certify compliance and set periodic monitoring parameters.	Rule 335-3-16-.05 (c)
2. For total reduced sulfur periodic monitoring, if the three-hour block average wet scrubber weak wash flow rate is less than 90 percent of its average value set by 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.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. A total reduced sulfur emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05 (c)
2. Records of all three-hour block average wet scrubber weak wash recirculation flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)

No. 3 Lime Kiln
Informational Summary

Description: Lime Kiln
Chemical Recovery

Emission Unit No: 009

Installation Date: 1975 **Reconstruction / Modification date**: NA

Operating Capacity: 25,000 lb CaO/hr or 300 tons CaO/day

Operating Schedule: 8760 hours/year.

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

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Z032	Lime Kiln	PM	$\leq$ 1.0 lb/ADTP	Rule 335-3-4-.07 (2)(c)
Z032	Lime Kiln	HAPs	PM as a surrogate $\leq$ 0.064 gr/dscf at10% O_2	Rule 335-3-11-.06 (38)
Z032	Lime Kiln (State only)	TRS	Shall not exceed 20 parts per million at 10 percent oxygen	Rule 335-3-5-.04 (6)
Z032	Lime Kiln	Opacity	No Greater than 20 percent with one six-minute period up to 40 percent in any one hour period	Rule 335-3-4-.01 (1)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas		

No. 3 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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 335-3-4-.07 (2)(c) particulate matter from kraft pulp mill lime kilns.	Rule 335-3-4-.07 (2)(c)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 (1) for opacity.	Rule 335-3-4-.01 (1)
4. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. In accordance with 40 CFR Part 63 Subpart MM, particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.064 gr/dscf corrected to 10% oxygen.	Rule 335-3-11-.06 (38)
2. Particulate matter emissions shall not exceed 1.0 pounds per air-dried ton of pulp.	Rule 335-3-4-.07 (2)(c)
3. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60.	Rule 335-3-16-.05 (c)
2. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-4-.01
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05 (c)
2. For particulate matter periodic monitoring, if any three-hour average wet scrubber pressure drop or liquid flow rate, when lime mud is fed, is less than the average value recorded at the time of the most recent required periodic test that showed compliance or a test approved by the Department that showed compliance, with the exception of pressure drop during periods of startup and shutdown, the cause is to be investigated and appropriate corrective action is to be initiated. This unit will be in violation of §63.862 when six or more 3-hour average flow rate or pressure drop within any 6-month reporting period are below the minimum operating limit established according to §63.864 (j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown). For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)

No. 3 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
3. For particulate matter periodic monitoring, if any three-hour block average lime mud flow rate is greater than 110 percent of its 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 lime mud flow rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05 (c)
4. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05 (c)
5. As specified in §63.8 (g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high level adjustments shall not be included in any data average computed under 40 CFR 63, Subpart MM.	Rule 335-3-11-.06 (38)
6. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every five years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. An emissions test report shall be submitted to the Department at least once per year for particulate matter.	Rule 335-3-16-.05 (c)
2. Records of CaO production rates in units of ton per day shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-11-.06 (38)
3. Records of all three-hour block average lime mud flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)
4. Records of all three-hour block average wet scrubber pressure drops and liquid flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05 (c)
5. In accordance with 40 CFR Part 63, Subpart MM, the facility must maintain records of parametric monitoring data required under §63.864, including any period when the three-hour average flow rate or pressure drop, during times when lime mud is fed, were inconsistent with the levels established during the initial or subsequent performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, the time corrective action was initiated and completed, and corrective action taken. • The facility must also maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit for each failure to meet an operation limit. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. • The facility must also maintain records and documentation supporting calculation for compliance determinations made under §63.865 (a) through (d). • The facility must also maintain the records of the monitoring parameter ranges for the scrubber's pressure drop and scrubber flow rates.	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
6. In accordance with 40 CFR Part 63, Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in §63.867 (c), including the number and duration of three-hour averages when the flow rate or pressure drop were below the minimum operating limit. 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 §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 §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)

No. 3 Lime Kiln
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (6) total reduced sulfur from kraft pulp mill lime kilns.	Rule 335-3-5-.04 (6)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 20 parts per million at 10 percent oxygen averaged over discrete 12-hour periods. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (6)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitor, 40 CFR Part 60 Method 16, 16A, or 16B.	Rule 335-3-16-.05 (c)
Emission Monitoring	
1. A total reduced sulfur (TRS) continuous emissions monitoring system which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 5 shall be installed, operated, calibrated, and maintained.	Rule 335-3-5-.04 (8)
2. A total reduced sulfur (TRS) continuous emission monitor shall be installed, calibrated, maintained and operated in accordance with 40 CFR §60.284, except that monitoring spans may be approved by the Director.	Rule 335-3-5-.04 (8)
Recordkeeping and Reporting Requirements	
1. A report of excess total reduced sulfur 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:	Rule 335-3-5-.04 (9)
a. The magnitude of excess emissions greater than 20 parts per million adjusted to 10 percent oxygen computed from twelve-hour averages (data recorded during periods of total reduced sulfur emission 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 total reduced sulfur emission 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 total reduced sulfur emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	

No. 1 Package Boiler
Informational Summary

Description: No. 1 Package Boiler

Emission Unit No: 010

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

Operating Capacity: 210 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
X038	No. 1 Package Boiler	Particulate Matter	$\leq$ 0.131 lb/MMBtu	Rule 335-3-4-.03 (1)
X038	No. 1 Package Boiler	Nitrogen Dioxide	$\leq$ 0.20 lb/MMbtu	Rule 335-3-10-.02 (2)(b)
X038	No. 1 Package Boiler	Sulfur Dioxide	$\leq$ 4.0 lb/MMBtu	Rule 335-3-5-.01 (1)(b)
X038	No. 1 Package Boiler	Opacity	$\leq$ 20% with one 6-min period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas	NA	NA

No. 1 Package Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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 335-3-4-.03 (1) for particulate matter from Fuel Burning Equipment.	Rule 335-3-4-.03 (1)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-10-.02 (2)(b) and New Source Performance Standards 40 CFR 60 Subpart Db for nitrogen dioxide.	Rule 335-3-10-.02 (1) and (2)(b)
4. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.01 (1)(b) sulfur dioxide.	Rule 335-3-5-.01 (1)(b)
5. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 (1) for opacity.	Rule 335-3-4-.01 (1)
6. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, 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 (107)
7. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.	Rule 335-3-11-.06 (1)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.131 pounds per million Btu.	Rule 335-3-4-.03 (1)
2. Nitrogen Dioxide emissions shall not exceed 0.20 pounds per million Btu heat input on a 30 day rolling average.	Rule 335-3-10-.02 (2)(b)
3. Pursuant to §60.44b(h), the NOx standards of 40 CFR 60, Subpart Db apply at all times including periods of startup, shutdown, or malfunction.	Rule 335-3-10-.02 (2)(b)
4. Sulfur dioxide emissions shall not exceed 4.0 pounds per million Btu heat input.	Rule 335-3-5-.01 (1)(b)
5. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5.	Rule 335-3-16-.05 (c)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Chapter 1 Part 60 Appendix A Method 6.	Rule 335-3-16-.05 (c)
3. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01
4. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7e in Appendix A of 40 CFR Part 60 or continuous emission monitoring system.	Rule 335-3-16-.05 (c)
5. Compliance with the nitrogen oxides limit shall be determined by the continuous emissions monitor (30 day rolling average).	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
6. Pursuant to §63.7510 (g), the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A continuous monitoring systems to record the nitrogen dioxide emission rates in pounds per million Btu heat input shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60, Subpart Db, §60.48b (e). The continuous emission monitoring systems 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)
2. The NOx CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Rule 335-3-10-.02 (2)(b)
3. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540 (a).	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. Pursuant to the requirements of §60.49b (g) of NSPS, Subpart Db, the owner or operator of an affected facility subject to the NOx standards under §60.44b shall maintain records of the following information for each steam generating unit operating day: 1) Calendar date; 2) The average hourly NOx emission rates (expressed as NO2) (ng/J or lb/MMBtu heat input) measured or predicted; 3) The 30-day average NOx emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; 4) Identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; 5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; 6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; 7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; 8) Identification of the times when the pollutant concentration exceeded full span of the CEMS; 9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and 10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
2. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only natural gas shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that gaseous fuel meets the definition of natural gas as defined in §60.41b for a period of 2 years following the date of such record.	Rule 335-3-10-.02 (2)(b)
3. As required under §60.49b (h) of NSPS, Subpart Db, this facility shall submit quarterly excess emission reports for NOx.	Rule 335-3-10-.02 (2)(b)
4. This source shall maintain the records required under 40 CFR 63.7555 (a) concerning initial notifications.	Rule 335-3-11-.06 (107)
5. 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 postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

No. 2 Package Boiler
Informational Summary

Description: No. 2 Package Boiler

Emission Unit No: 011

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

Operating Capacity: 210 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
X039	No. 2 Package Boiler	Particulate Matter	$\leq$ 0.131 lb/MMBtu	Rule 335-3-4-.03 (1)
X039	No. 2 Package Boiler	Nitrogen Dioxide	$\leq$ 0.20 lb/MMbtu	Rule 335-3-10-.02 (2)(b)
X039	No. 2 Package Boiler	Sulfur Dioxide	$\leq$ 4.0 lb/MMBtu	Rule 335-3-5-.01 (1)(b)
X039	No. 2 Package Boiler	Opacity	$\leq$ 20% with one 6-min period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas	NA	NA

No. 2 Package Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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 335-3-4-.03 (1) for particulate matter from Fuel Burning Equipment.	Rule 335-3-4-.03 (1)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-10-.02 (2)(b) and New Source Performance Standards 40 CFR 60 Subpart Db for nitrogen dioxide.	Rule 335-3-10-.02 (1) and (2)(b)
4. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.01 (1)(b) sulfur dioxide.	Rule 335-3-5-.01 (1)(b)
5. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 (1) for opacity.	Rule 335-3-4-.01 (1)
6. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, 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 (107)
7. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.	Rule 335-3-11-.06 (1)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.131 pounds per million Btu.	Rule 335-3-4-.03 (1)
2. Nitrogen Dioxide emissions shall not exceed 0.20 pounds per million Btu heat input on a 30 day rolling average.	Rule 335-3-10-.02 (2)(b)
3. Pursuant to §60.44b(h), the NOx standards of 40 CFR 60, Subpart Db apply at all times including periods of startup, shutdown, or malfunction.	Rule 335-3-10-.02 (2)(b)
4. Sulfur dioxide emissions shall not exceed 4.0 pounds per million Btu heat input.	Rule 335-3-5-.01 (1)(b)
5. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5.	Rule 335-3-16-.05 (c)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Chapter 1 Part 60 Appendix A Method 6.	Rule 335-3-16-.05 (c)
3. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01
4. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7e in Appendix A of 40 CFR Part 60 or continuous emission monitoring system.	Rule 335-3-16-.05 (c)
5. Compliance with the nitrogen oxides limit shall be determined by the continuous emissions monitor (30 day rolling average).	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
6. Pursuant to §63.7510 (g), the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A continuous monitoring systems to record the nitrogen dioxide emission rates in pounds per million Btu heat input shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60, Subpart Db, §60.48b (e). The continuous emission monitoring systems 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)
2. The NOx CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Rule 335-3-10-.02 (2)(b)
3. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540 (a).	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. Pursuant to the requirements of §60.49b (g) of NSPS, Subpart Db, the owner or operator of an affected facility subject to the NOx standards under §60.44b shall maintain records of the following information for each steam generating unit operating day: 1) Calendar date; 2) The average hourly NOx emission rates (expressed as NO2) (ng/J or lb/MMBtu heat input) measured or predicted; 3) The 30-day average NOx emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; 4) Identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; 5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; 6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; 7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; 8) Identification of the times when the pollutant concentration exceeded full span of the CEMS; 9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and 10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	Rule 335-3-10-.02 (2)(b)

Federally Enforceable Provisos	Regulations
2. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only natural gas shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that gaseous fuel meets the definition of natural gas as defined in §60.41b for a period of 2 years following the date of such record.	Rule 335-3-10-.02 (2)(b)
3. As required under §60.49b (h) of NSPS, Subpart Db, this facility shall submit quarterly excess emission reports for NOx.	Rule 335-3-10-.02 (2)(b)
4. This source shall maintain the records required under 40 CFR 63.7555 (a) concerning initial notifications.	Rule 335-3-11-.06 (107)
5. 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 postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

Pulping System Processes
Informational Summary

Description: Pulping System Processes

Emission Unit No: 012

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	1. Pulping System Processes LVHC, Batch Digester Systems, Multiple Effect Evaporator System, Turpentine Recovery System and Condensate Stripper Off Gases. 2. Pulping System Processes HVLC, Combined Brown Stock Washer Line	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to a control device.	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 Rule 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 Batch Digesters, Multiple Effect Evaporators, Turpentine Recovery System, and Condensate Stripper Off Gases, per the requirements of 40 CFR Part 63 Subpart S, Low Volume High Concentration Gases (LVHC) shall be controlled by incineration in either a recovery furnace or a lime kiln.	Rule 335-3-11-.06 (18)
2. Per the requirements of 40 CFR Part 63 Subpart S, High Volume Low Concentration Gases (HVLC) from the following equipment systems shall be controlled by incineration in a recovery furnace or a lime kiln:	Rule 335-3-11-.06 (18)
(i) Each knotter or screen system with total HAP mass emission rates greater than or equal to the rates specified in bullets 2.(i)(A) or 2.(i)(B) of this section or the combined rate specified in bullet 2.(i)(C) of this section.	
(A) Each knotter system with emissions of 0.05 kilograms or more of total HAP per megagram of ODP (0.1 pounds per ton).	
(B) Each screen system with emissions of 0.10 kilograms or more of total HAP per megagram of ODP (0.2 pounds per ton),	
(C) Each knotter and screen system with emissions of 0.15 kilograms or more of total HAP per megagram of ODP (0.3 pounds per ton).	
(ii) Pulp washing systems (i.e. Combined Brown Stock Washing System).	
(iii) Each decker system that:	
(A) Uses any process water other than fresh water or paper machine white water; or	
(B) Uses any process water with a total HAP concentration greater than 400 parts per million by weight.	
(iv) Each oxygen delignification system.	
3. Periods of excess emissions reported under 40 CFR §63.455 shall not be a violation of 40 CFR §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:	Rule 335-3-11-.06 (18)
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.	

Federally Enforceable Provisos	Regulations
4. Equipment systems listed in provisos 1 and 2 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 proviso. The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Provisos 1 - 4.	Rule 335-3-11-.06 (18)
5. The control device used to reduce total HAP emissions from each equipment system listed in provisos 1 and 2 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 boiler with heat input capacity greater than 150 million Btu per hour by introducing the HAP emission stream with the combustion air.	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. See Emission Monitoring provisos for "Enclosures and Closed-Vent Systems" for details.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. For the pulping system processes 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)

Process Condensates
Informational Summary

Description: Process Condensates

Emission Unit No: 013

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
S446	Process Condensates, (1) Each digester system (2) Each turpentine recovery system (3) Each evaporator system condensate from: (i) The vapors from each stage where weak liquor is introduced (feed stages); and (ii) Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages) (4) Each HVLC collection system (5) Each LVHC collection system.	HAPs	Collect the pulping process condensates that contain more than 11.1 pounds per ton of ODP. Treat the pulping process condensates to remove 10.2 pounds per ton) of ODP, or achieve a total HAP concentration of 330 parts per million or less by weight	Rule 335-3-11-.06 (18)
S446	Process Condensates, (1) Each digester system (2) Each turpentine recovery system (3) The vapors from each evaporator system condensate from: (i) Each stage where weak liquor is introduced (feed stages); and (ii) Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages) (4) Each HVLC collection system	HAPs	The pulping process condensates from the equipment systems listed in this section shall be conveyed in a closed collection system that is designed and operated to meet the requirements specified in 40 CFR 63.446	Rule 335-3-11-.06 (18)

	(5) Each LVHC collection system.			
S446	Process Condensates, (1) Each digester system (2) Each turpentine recovery system (3) Each evaporator system condensate from: (i) The vapors from each stage where weak liquor is introduced (feed stages); and (ii) Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages) (4) Each HVLC collection system (5) Each LVHC collection system.	HAPs	The enclosures and closed-vent system shall meet the requirements specified in 40 CFR 63.450	Rule 335-3-11-.06 (18)

Process Condensates
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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. The pulping process condensates from each digester system, each turpentine recovery system, each evaporator system; each HVLC collection system; and each LVHC collection system that in total contain a total HAP mass of 11.1 pounds of total HAP or more per ton of ODP for mills that perform bleaching shall be controlled as specified in 40 CFR 63.446 (d) and (e).	Rule 335-3-11-.06 (18)
2. The pulping process condensates from the equipment systems in this section shall be conveyed in a closed collection system that is designed and operated to meet the requirements specified in bullets (a) and (b) of this section.	Rule 335-3-11-.06 (18)
a) Each closed collection system shall meet the individual drain system requirements specified in §§63.960, 63.961, and 63.962 of subpart RR of this part, except for closed vent systems and control devices shall be designed and operated in accordance with §§63.443 (d) and 63.450, instead of in accordance with §63.693 as specified in §63.962 (a)(3)(ii), (b)(3)(ii)(A), and (b)(3)(ii)(B)(5)(iii);	
b) If a condensate tank is used in the closed collection system, the tank shall meet the following requirements:	
i. The fixed roof and all openings (e.g., access hatches, sampling ports, gauge wells) shall be designed and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million above background, and vented into a closed-vent system that meets the requirements in §63.450 and routed to a control device that meets the requirements in §63.443 (d); and	
ii. Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that the tank contains pulping process condensates or any HAP removed from a pulping process condensate stream except when it is necessary to use the opening for sampling, removal, or for equipment inspection, maintenance, or repair.	
3. Each pulping process condensate from the equipment systems listed in this section shall be treated to remove 10.2 pounds or more of total HAP per ton of ODP, at the outlet of the control device.	Rule 335-3-11-.06 (18)
4. Each HAP removed from a pulping process condensate stream during treatment and handling under this section shall be controlled as specified in §63.443 (c) and (d).	Rule 335-3-11-.06 (18)

Process Condensates
Provisos

Federally Enforceable Provisos	Regulations
5. For the condensate stripper system used to treat pulping system condensates to comply with the requirements specified in proviso 3 of this section, periods of excess emissions reported under §63.455 shall not be a violation of provisos 3 and 4 of this section provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed 10 percent.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. An initial performance test is required using, Method 305 adjusted as described in §63.457, to determine the concentration of methanol in liquid samples.	Rule 335-3-11-.06 (18)
2. 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 pulping process condensates from the equipment systems of this section per the requirements of §63.446, the permittee shall meet the requirements of §63.453.	Rule 335-3-11-.06 (18)
2. A continuous monitoring system (CMS, as defined in 40 CFR Part 63 Subpart A General Provisions §63.2) shall be installed, calibrated, certified, operated, and maintained according to the manufacturer's specifications. The CMS shall include a continuous recorder.	Rule 335-3-11-.06 (18)
3. A CMS shall be operated to measure the following parameters for each steam stripper used to comply with the treatment requirements in §63.446 (e)(3), (4), or (5): a) The process wastewater feed rate; b) The steam feed rate; and c) The process wastewater column feed temperature.	Rule 335-3-11-.06 (18)
4. Each owner or operator using a control device, technique or an alternative parameter shall install a CMS and establish appropriate operating parameters to be monitored that demonstrate, to the Administrator's satisfaction, continuous compliance with the applicable control requirements.	Rule 335-3-11-.06 (18)

Process Condensates
Provisos

Federally Enforceable Provisos	Regulations
5. To establish or reestablish the value for each operating parameter required to be monitored by this section or to establish appropriate parameters for provisos 3 and 4 of this section, each owner or operator shall use the following procedures:	Rule 335-3-11-.06 (18)
a) During the initial performance test required in §63.457 (a) or any subsequent performance test, continuously record the operating parameter;	
b) Determinations shall be based on the control performance and parameter data monitored during the performance test, supplemented if necessary, by engineering assessments and the manufacturer's recommendations;	
c) The owner or operator shall provide for the Administrator's approval the rationale for selecting the monitoring parameters necessary to comply with provisos 2 and 3 of this section; and	
d) Provide for the Administrator's approval the rationale for the selected operating parameter value, and monitoring frequency, and averaging time. Include all data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the applicable emission standard.	
Recordkeeping and Reporting Requirements	
1. For the pulping process condensates from the equipment systems of this section per the requirements of §63.446, the permittee shall meet the Recordkeeping and Reporting Requirements section of the "Enclosures and Closed-Vent Systems" provisos.	Rule 335-3-11-.06 (18)
2. For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator 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: 014

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

Operating Capacity: NA

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	Each enclosure shall maintain negative pressure at each enclosure or hood opening. Each enclosure or hood opening closed during the initial performance test shall be maintained in the same closed and sealed position at all times except for sampling, inspection, maintenance, or repairs. Each component of the closed-vent 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 ppm by volume above background.	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 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 Batch Digester Systems, Multiple Effect Evaporators, Turpentine Recovery System, HVLC (interchange the term DNCG) Collection System, LVHC (interchange the term CNCG) Collection System and Pulp Bleaching 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), 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)
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, 63.444, or 63.445 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)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
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 or for pulping process wastewater collection systems as specified in 40 CFR §63.446 (d)(2)(i), the owner or operator shall comply with the following: a) Method 21, of 40 CFR Part 60, appendix A-7; and 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.	Rule 335-3-11-.06 (18)
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 proviso (1)(a) through (1)(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 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 15 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. Inspection requirements are subject to the waiver for inaccessible monitoring points, issued by the EPA Region IV on January 15, 2002. 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 §63.457 (e).	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
e) The valve or closure mechanism specified in 40 CFR §63.450 (d)(2) shall be inspected at least once per calendar month with at least 15 days 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.	Rule 335-3-11-.06 (18)
f) If an inspection required by provisos (1)(a) through (1)(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.	
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.	Rule 335-3-11-.06 (18)
a) Each pulping process condensate closed collection system shall be visually inspected at least once per calendar month with at least 15 days between inspections and shall comply with the inspection and monitoring requirements specified in §63.964 of subpart RR of this part, except:	
i. Owners or operators shall comply with the recordkeeping requirements of §63.454 instead of the requirements specified in 40 CFR §63.964 (a)(1)(vi) and (b)(3) of subpart RR of Part 63.	
ii. Owners or operators shall comply with the inspection and monitoring requirements for closed-vent systems and control devices specified in bullets (a) and (k) of 40 CFR §63.453 instead of the requirements specified in 40 CFR §63.964 (a)(2) of subpart RR of 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 part 63 shall be taken.	

Enclosures and Closed-Vent Systems
Provisos

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 proviso 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: 1) Date of inspection; 2) The equipment type and identification; 3) Results of negative pressure tests for enclosures; 4) Results of leak detection tests; 5) The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection); 6) The date the defect or leak was detected and the date of each attempt to repair the defect or leak; 7) Repair methods applied in each attempt to repair the defect or leak; 8) The reason for the delay if the defect or leak is not repaired within 15 days after discovery; 9) The expected date of successful repair of the defect or leak if the repair is not completed within 15 days; 10) The date of successful repair of the defect or leak; 11) The position and duration of opening of bypass line valves and the condition of any valve seals; and 12) 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 or pulping process condensate stream that becomes subject to the standards in this subpart due to a process change or modification.	Rule 335-3-11-.06 (18)
4. The owner or operator of each affected source subject to the requirements of Subpart S shall comply with the reporting requirements of 40 CFR Part 63 Subpart A, as shown in Table 1 of Subpart S and the requirements of §63.455.	Rule 335-3-11-.06 (18)

RICE MACT Units
Informational Summary

Description: Lime Kiln Auxiliary Drive Engine, IT Server Emergency Generator & Security Building Emergency Generator

Emission Unit No: 015

Installation Date:		**Reconstruction / Modification date**:
X041 - IT Server Emergency Generator	2001	N/A
X042 - Security Building Emergency Generator	2005	N/A
X043 - Lime Kiln Auxiliary Drive Engine	2018	N/A

Operating Capacity:	**HP**	**Type**	**Fuel**
X041 - IT Server Emergency Generator	134	**CI**	**Diesel**
X042 - Security Building Emergency Generator	30	**SI**	**Propane**
X043 - Lime Kiln Auxiliary Drive Engine	49	**SI**	**Natural Gas**

Operating Schedule:	**Calendar Year Limit**	**Non-Emergency**
X041 - IT Server Emergency Generator	≤100 hours/year	≤50 hours/year
X042 - Security Building Emergency Generator	≤100 hours/year	≤50 hours/year
X043 - Lime Kiln Auxiliary Drive Engine	N/A	N/A

These units contain equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 63 Subpart ZZZZ (X041, X042, & X043)

40 CFR Part 60 Subpart JJJJ (X043)

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
X041, X042, X043	All Units	Opacity	≤ 20% as determined by six-minute average, with one six-minute period up to 40% in any one hour period.	Rule 335-3-4-.01 (1)
X041	IT Server Emergency Generator	HAPs	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Rule 335-3-11-.06 (103)
X042	Security Building Emergency Generator	HAPs	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Rule 335-3-11-.06 (103)
X043	Lime Kiln Auxiliary Drive Engine	HAPs	NOx: 3.8 g/kW-hr CO: 6.5 g/kW-hr	Rule 335-3-10-.02 (88)

X043	Lime Kiln Auxiliary Drive Engine	HAPs	a. Operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions; b. Adjust engine settings according to and consistent with the manufacturer's instructions; c. Keep records of conducted maintenance to demonstrate compliance.	Rule 335-3-10-.02 (88)

RICE MACT Units
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of Rule 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 (1) for opacity.	Rule 335-3-4-.01 (1)
3. These 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)
4. The Lime Kiln Auxiliary Drive Engine is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02 (88), "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines" (40 CFR Part 60, Subpart JJJJ).	Rule 335-3-10-.02 (1) and (88)
Emission Standards	
1. For all units, opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
2. The IT Server Emergency Generator must comply with the emission limitations in 40 CFR 63 Subpart ZZZZ Table 2c (1) and the Security Building Emergency Generator must comply with the emission limitations in 40 CFR 63 Subpart ZZZZ Table 2c (6).	Rule 335-3-11-.06 (103)
3. Pursuant to 40 CFR 60.4231 (c), the permittee shall not cause or allow the emissions from the Lime Kiln Auxiliary Drive Engine to exceed the applicable emission standards in 40 CFR 1048.101 (c), specifically: a. Nitrogen Oxides (NO_X) emissions shall not exceed 3.8 g/kW-hr b. Carbon Monoxide (CO) emissions shall not exceed 6.5 g/kW-hr	Rule 335-3-10-.02 (88)
4. The IT Server Emergency Generator and the Security Building Emergency Generator must be operated according to the requirements in §63.6640 (f)(1)(i) through (iii).	Rule 335-3-11-.06 (103)
5. The IT Server Emergency Generator, the Security Building Emergency Generator, and after-treatment control device (if any) must 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)
6. The Lime Kiln Auxiliary Drive Engine shall: a) Operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions; b) Adjust engine settings according to and consistent with the manufacturer's instructions; c) Keep records of conducted maintenance to demonstrate compliance.	Rule 335-3-10-.02 (88)

Federally Enforceable Provisos	Regulations
7. For the IT Server Emergency Generator and the Security Building Emergency Generator, 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, after which time the emission standards in Tables 1a, 2a, 2c, and 2d to 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 according to methods specified in Table 6 (9) to 40 CFR 63 Subpart ZZZZ for the IT Server Emergency Generator and Security Building Emergency Generator.	Rule 335-3-11-.06 (103)
2. The Lime Kiln Auxiliary Drive Engine must meet the requirements of 40 CFR Part 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 60 Subpart JJJJ for spark ignition engines.	Rule 335-3-11-.06 (103)
3. For the Lime Kiln Auxiliary Drive Engine, it is expected that air-to-fuel ratio (AFR) controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.	Rule 335-3-10-.02 (88)
Emission Monitoring	
1. The facility must install a non-resettable hour meter and monitor the IT Server Emergency Generator and the Security Building Emergency Generator according to the requirements of §63.6625 (f) and §63.6635.	Rule 335-3-11-.06 (103)
2. For the Lime Kiln Auxiliary Drive Engine, pursuant to 40 CFR 60.4234 owner/operators must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.	Rule 335-3-10-.02 (88)
3. For the Lime Kiln Auxiliary Drive Engine, pursuant to 40 CFR 60.4243(a), the facility shall comply with the emission standards of Subpart JJJJ by purchasing an engine that is certified by the manufacturer to meet the requirements of 60.4233.	Rule 335-3-10-.02 (88)
4. For the Lime Kiln Auxiliary Drive Engine, owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §60.4233.	Rule 335-3-10-.02 (88)
Recordkeeping and Reporting Requirements	
1. The IT Server Emergency Generator and the Security Building Emergency Generator, the facility shall keep records of the operation of the engine 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. The facility shall keep records in accordance with §63.6655 for the IT Server Emergency Generator and the Security Building Emergency Generator.	Rule 335-3-11-.06 (103)
3. The facility shall submit reports in accordance with §63.6650 for the IT Server Emergency Generator and the Security Building Emergency Generator.	Rule 335-3-11-.06 (103)

Federally Enforceable Provisos	Regulations
4. For the Lime Kiln Auxiliary Drive Engine, the facility shall maintain and show records of the manufacturer's certification pursuant to requirements of 40 CFR 60.4231 (c).	Rule 335-3-10-.02 (88)
5. For the Lime Kiln Auxiliary Drive Engine, the facility shall keep records in accordance with 40 CFR 60.4245 (a)(1)-(3), specifically: a. All notifications submitted to comply with this subpart and all documentation supporting any notification. b. All maintenance conducted on the engine. c. Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR 1048.	Rule 335-3-10-.02 (88)

Sources Subject Only to the General Provisos
Informational Summary

Description: State Only Sources

Emission Unit No: 016

Operating Schedule: 8760 hours/year.

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

Emission Point #	Point Description
131	Softwood Chip Unloading and Storage
238	West Batch Digester System Pad Liquor Tank
329	East Batch Digester System Pad Liquor Tank
601	D Bleach E-1 Stage Washer
611	D Bleach E-1 Stage Tower
613	D Bleach E-2 Stage Tower
619	D Bleach Brownstock Blend Chest
624	D Bleach E-1 Stage Filtrate Tank
626	D Bleach E-2 Stage Filtrate Tank
628	D Bleach E-2 Stage Washer
701	E Bleach Brownstock Feed Tank
702	E Bleach EO Stage Tower
703	E Bleach EO Stage Filtrate Tank
800	Ross Pulp Dryer
1130	62% Black Liquor Storage Tank No. 1
1131	62% Black Liquor Storage Tank No. 2
1132	52% Black Liquor Storage Tank No. 1
1133	52% Black Liquor Storage Tank No. 2
1134	Soap Skimmer Tank
1135	14% Black Liquor Storage Tank No. 1
1136	14% Black Liquor Storage Tank No. 2
1302	Tall Oil Reactor
1601	No. 3 Lime Kiln Mud Pre-coat Filter
1602	No. 3 Lime Kiln Mud Pre-coat Filter Vacuum Pump
1609	Lime Slaker with Causticizers
1626	Clarified Green Liquor Storage Tank
1627	Green Liquor Clarifier
1632	Lime Mud Washer
1642	Dregs Precoat Filter
2600	Wastewater Lagoons (fugitives)
X040	Emergency Fire Pump Generator

Facility-Wide Fugitive Dust Plan
Informational Summary

Operating Schedule: 8760 hours/year

Pollutants Emitted:

Emission Point #	Description	Pollutant	Emission limit	Regulation
Fugitive	Fugitive Dust	PM	N/A	Rule 335-3-4-.02

Facility-Wide Fugitive Dust Plan
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. These units are subject to the applicable requirements of Rule 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
Emission Standards (State Only)	
1. The permittee 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 permittee shall utilize the Facility Dust Plan of Appendix A, in order to minimize and address fugitive dust emissions.	Rule 335-3-16-.07
Emission Monitoring (State Only)	
1. The permittee shall conduct weekly, considering factors such as naturally wet conditions, visual observations for fugitive dust in areas listed with potential to generate fugitive dust, and if visible emissions traveling beyond the facility property line are observed, any necessary corrective actions shall be initiated within four (4) hours of observation.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements (State Only)	
1. The permittee shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of Proviso 1 of Emission Monitoring section of this Permit. This shall include problems observed and corrective actions taken. The records shall be retained for at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05

Fugitive Dust Management Plan

Introduction

Resolute FP. U. S., Inc., a wholly-owned subsidiary of Paper Excellence, operates a bleached Kraft pulp mill in Coosa Pines, Talladega County, Alabama (Coosa Pines 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 Coosa Pines Mill operates under Title V Major Source Operating Permit No. 309-0006 issued by the Alabama Department of Environmental Management (ADEM). This plan has been developed at the request of ADEM to satisfy the objectives outlined below.

Plan Objectives

The Coosa Pines 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 Coosa Pines Mill personnel will follow to monitor and control emissions where necessary.
- Steps that the Coosa Pines 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
- Visual determinations of fugitive dust emissions and corrective action practices
- Fugitive dust management recordkeeping practices

Identified Dust Sources	Primary Controls	Practices	Recordkeeping
Paved Roads	• Speed limit (paved roads) of 15 mph. • Dust suppression via watering, or other methods (e.g. $CaCl_2$) as needed.	• Monthly visual observation of any potential fugitive emissions	• Records of monthly observations and of corrective actions (if necessary)
Unpaved Roads/ Landfill	• Speed limit (paved roads) of 15 mph. • Dust suppression via watering, or other methods (e.g. $CaCl_2$) as needed. • Routine inspection of road surfaces/landfill for necessary corrective actions.	• Monthly visual observation of any potential fugitive emissions • Monthly inspection of unpaved roads	• Records of monthly observations of unpaved roads and of corrective actions identified/taken.
Mobile Equipment/ Material Handling	• Drop distance for material handling is generally limited to 3 feet. • Lime residuals are wetted prior to transportation for waste handling.	• Training material provided to operators and contractors on proper handling of dry materials	• Annual record of training documentation
Storage Piles	• Lime residuals pile is generally greater than 50% moisture and contained on a concrete slab prior to transport. • Chip piles are comprised of green wood (typically greater than 40% moisture).	• Monthly observation of storage pile conditions • Use of water, or other methods (e.g. $CaCl_2$) as dust suppressant, as necessary	• Records of monthly observations and of corrective actions (if necessary)