Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

Permitee:	**INTERNATIONAL PAPER CO.**
Facility Name:	**INTERNATIONAL PAPER PRATTVILLE**
Facility No.:	201-0001
Location:	PRATTVILLE, 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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FUGITIVE DUST PLAN ..... APPENDIX A

General Permit Provisos

Federally Enforceable Provisos	Regulations
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, subdivisions, 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/or 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	Rule 335-3-16-.05(j)

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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.	
8. Economic Incentives, Marketable Permits, and Emissions Trading No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-16-.05(k)
9. Certification of Truth, Accuracy, and Completeness: Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness except as provided in Rule 335-3-16-.04(9). 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 as required in the applicable regulations 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 within two months of the anniversary of the permit's effective date unless more frequent periods are specified according to the specific rule governing the source or required by the Department. (a) The compliance certification shall include the following:	Rule 335-3-16-.07(e)

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(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 Recording Keeping Requirements); (4) Compliance 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: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	
13. <u>Reopening for Cause</u> 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. <u>Additional Rules and Regulations</u> This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), <u>Code of Alabama 1975</u>, as amended
15. <u>Equipment Maintenance or Breakdown</u>	

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(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; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	Rule 335-3-1-.07(1),(2)
(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 will 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 for such purposes shall be established.	§22-28-16(d), <u>Code of Alabama 1975</u>, 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.	Rule 335-3-4-.02

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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.	
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
20. <u>Recordkeeping Requirements</u> (a) Records of required monitoring information of the source shall include the following: (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. (c) The Permittee shall conduct monitoring in accordance with the specific provisions of the permit, provided that no monitoring is required when the process or emission source is not operating.	Rule 335-3-16-.05(c)2.
21. <u>Reporting Requirements</u> (a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. The reports shall be submitted within 60 days following the end of the six month period. All instances of deviations from permit requirements must be clearly	Rule 335-3-16-.05(c)3.

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identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).	
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	Rule 335-3-16-.05(c)3.
22. <u>Emission Testing Requirements</u>	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised. As allowed in MACT and other regulations, flexibility is provided to use alternative test methods, as approved by EPA, ADEM or permit condition.	Rule 335-3-1-.05(3) 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:	
(a) 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
(b) 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).	
(c) 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.	
(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	Rule 335-3-1-.04
All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division or an alternative time is specified by an applicable regulation.	
23. <u>Payment of Emission Fees</u>	
Annual emission fees shall be remitted each year according to the fee schedule in Rule 335-1-7-.04.	Rule 335-1-7-.04
	Rule 335-1-7-.05

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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.	
24. Other Reporting and Testing Requirements Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	Rule 335-3-1-.04(1)
25. Title VI Requirements (Refrigerants) Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F. 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.	335-3-16-.05(a) 40 CFR Part 82
26. Chemical Accidental Prevention Provisions If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	40 CFR Part 68
27. Display of Permit This permit shall be kept on file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available at reasonable times 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 the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	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	Rule 335-3-4-.01(1)

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any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	
30. **Fuel-Burning Equipment**	
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	Rule 335-3-4-.03
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
34. **Compliance Assurance Monitoring (CAM)**	
Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.	
(a) Operation of Approved Monitoring	40 CFR 64.7
(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	

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(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. (4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or	

Federally Enforceable Provisos	Regulations
standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.	
(b) Quality Improvement Plan (QIP) Requirements	40 CFR 64.8
(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.	
(2) Elements of a QIP:	
A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:	
(i) Improved preventive maintenance practices.	
(ii) Process operation changes.	
(iii) Appropriate improvements to control methods.	
(iv) Other steps appropriate to correct control performance.	

Federally Enforceable Provisos	Regulations
(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).	
(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.	
(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:	
A. Failed to address the cause of the control device performance problems; or	
B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
(c) Reporting and Recordkeeping Requirements	40 CFR 64.9
(1) General reporting requirements	
A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.	
B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:	

Federally Enforceable Provisos	Regulations
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and (iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring. (2) General recordkeeping requirements. A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	
(d) Savings Provisions (1) Nothing in this part shall:	40 CFR 64.10

General Permit Provisos

Federally Enforceable Provisos	Regulations
A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part. B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable. *C.* Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	

Continuous Digester System
Informational Summary

Description: Continuous Digester System

Emission Unit	Installation Date:	Reconstruction/Modification Date:
301 K-1 Digester	1967	N/A
304 K-2 Digester	1980	1998
306 K-3 Digester	1980	1999

Emission Unit:	Operating Capacity:	Operating Schedule:
301 K-1 Digester	1,500 ADTP/day	8760 hours/year
304 K-2 Digester	1,100 ADTP/day	8760 hours/year
306 K-3 Digester	1,100 ADTP/day	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

Emission Limitations:

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z005 TV Application 301	K-1 Digester **(State Only)**	TRS	Incineration	Rule 335-3-5-.04 (5)
Air Permit Z005 TV Application 301	K-1 Digester	HAPs	Incineration	Rule 335-3-11-.06 (18)
Air Permit Z016 TV Application 304	K-2 Digester	TRS	Incineration	Rule 335-3-10-.02 (28)
Air Permit Z016 TV Application 304	K-2 Digester	HAPs	Incineration	Rule 335-3-11-.06 (18)
Air Permit Z017 TV Application 306	K-3 Digester	TRS	Incineration	Rule 335-3-10-.02 (28)
Air Permit Z017 TV Application 306	K-3 Digester	HAPs	Incineration	Rule 335-3-11-.06 (18)

Continuous Digester System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. The K-1, K-2, and K-3 Digester Systems are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The K-2 and K-3 Digester Systems are subject to the Federal New Source Performance Standards, as listed in 40 CFR Part 60, Subpart BB.	Rule 335-3-10-.02 (1) and (28)
3. The K-1, K-2, and K-3 Digester Systems are subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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. Pursuant to 40 CFR Part 60, Subpart BB, all gases from the K-2 and K-3 Digester Systems 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 by 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 the K-2 and K-3 Digester Systems total reduced sulfur periodic monitoring, at least once per day, mill personnel shall determine if the gases are being incinerated as required, and, if the gases are not being incinerated, investigate and take corrective action within 24 hours.	Rule 335-3-16-.05
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. For the K-2 and K-3 Digester Systems, at least once per day, records of whether or not total reduced sulfur gases are being incinerated shall be made and maintained on file, available for inspection for a period of five years.	Rule 335-3-16-.05
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed-Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

Continuous Digester System
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. The K-1 Digester System is subject to the requirements of ADEM Admin. Code R. 335-3-5-.04 (5) total reduced sulfur from kraft pulp mill digesters.	Rule 335-3-5-.04 (5)
Emission Standards (State Only)	
1. For the K-1 Digester System, all gases discharged that contain total reduced sulfur in excess of 5 parts per million 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. 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 (State Only)	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Emission Monitoring (State Only)	
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 the gases are not being incinerated, investigate, and take corrective actions within 24 hours.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements (State Only)	
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

Brown Stock Washers
Informational Summary

Description: Brown Stock Washer System

Emission Unit	Installation Date:	Reconstruction/Modification Date:
308 No. 1 Wash Plant	1967	N/A
310 No. 2 Wash Plant	1967	N/A
312 No. 3 Wash Plant	1975	N/A
314 No. 4 Wash Plant	1979	N/A
316 No. 5 Wash Plant	1979	N/A

Emission Unit:	Operating Capacity:	Operating Schedule:
308 No. 1 Wash Plant	950 ADTP/day	8760 hours/year
310 No. 2 Wash Plant	950 ADTP/day	8760 hours/year
312 No. 3 Wash Plant	570 ADTP/day	8760 hours/year
314 No. 4 Wash Plant	950 ADTP/day	8760 hours/year
316 No. 5 Wash Plant	900 ADTP/day	8760 hours/year

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

40 CFR Part 63 Subpart S
40 CFR Part 60 Subpart BB

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
308	No. 1 Wash Plant	HAPs	Incineration	Rule 335-3-11-.06 (18)
310	No. 2 Wash Plant	HAPs	Incineration	Rule 335-3-11-.06 (18)
312	No. 3 Wash Plant	HAPs	Incineration	Rule 335-3-11-.06 (18)
314	No. 4 Wash Plant	TRS	Incineration	Rule 335-3-10-.02 (28)
314	No. 4 Wash Plant	HAPs	Incineration	Rule 335-3-11-.06 (18)
316	No. 5 Wash Plant	TRS	Incineration	Rule 335-3-10-.02 (28)
316	No. 5 Wash Plant	HAPs	Incineration	Rule 335-3-11-.06 (18)

Brown Stock Washers
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. The No. 1, 2, 3, 4, and 5 Wash Plants are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 4 and 5 Wash Plants are subject to the General Provisions of 40 CFR 60 and the New Source Performance Standards for Kraft pulp mills 40 CFR Part 60 Subpart BB.	Rule 335-3-10-.02 (1) and (28)
3. The No. 1, 2, 3, 4, and 5 Wash Plants are subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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 the No. 4 and 5 Wash Plants, 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" 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 the No. 4 and 5 Wash Plants, total reduced sulfur periodic monitoring, at least once per day mill personnel shall determine if the gases are being incinerated as required, and, if the gases are not being incinerated, investigate and take corrective action within 24 hours.	Rule 335-3-16-.05
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. For the No. 4 and 5 Wash Plants, at least once per day, records of whether or not total reduced sulfur gases are being incinerated shall be made and maintained on file, available for inspection for a period of five years.	Rule 335-3-16-.05
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems for additional requirements.	Rule 335-3-11-.06 (18)

Evaporator System
Informational Summary

Description: Evaporator System

Emission Unit	Installation Date:	Reconstruction/Modification Date:
Z004 E-1 Evaporator	1968	1998
Z014 E-2 Evaporator	1980	1998
Z015 E-3 Evaporator	1980	1998

Emission Unit:	Operating Capacity:	Operating Schedule:
Z004 E-1 Evaporator	1,600 gpm	8760 hours/year
Z014 E-2 Evaporator	1,700 gpm	8760 hours/year
Z015 E-3 Evaporator	1,250 gpm	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
Air Permit Z004 TV Application 401	E-1 Evaporator System	TRS	Incineration	Rule 335-3-10-.02 (28)
Air Permit Z004 TV Application 401	E-1 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)
Air Permit Z014 TV Application 407	E-2 Evaporator System	TRS	Incineration	Rule 335-3-10-.02 (28)
Air Permit Z014 TV Application 407	E-2 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)
Air Permit Z015 TV Application 407	E-3 Evaporator System	TRS	Incineration	Rule 335-3-10-.02 (28)
Air Permit Z015 TV Application 407	E-3 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 1 Evaporator System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. The E-1, E-2 and E-3 Evaporator Systems are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The E-1, E-2, and E-3 Evaporator Systems are subject to the Federal New Source Performance Standards, as listed in 40 CFR Part 60, Subpart BB.	Rule 335-3-10-.02 (28)
3. The E-1, E-2 and E-3 Evaporator Systems are subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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. Pursuant to 40 CFR Part 60, Subpart BB, all gases from E-1, E-2, and E-3 Evaporator Systems 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 by 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 details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. For the E-1, E-2, and E-3 Evaporator Systems total reduced sulfur periodic monitoring, at least once per day, mill personnel shall determine if the gases are being incinerated as required, and, if the gases are not being incinerated, investigate and take corrective action within 24 hours.	Rule 335-3-16-.05
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. For the E-1, E-2, and E-3 Evaporator Systems, at least once per day, records of whether or not total reduced sulfur gases are being incinerated shall be made and maintained on file, available for inspection for a period of five years.	Rule 335-3-16-.05
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)

No. 1 Lime Kiln
Informational Summary

Description: No. 1 Lime Kiln

Emission Unit No: Z003

Installation Date: 1967 **Reconstruction/Modification Date:** N/A

Operating Capacity: 21,242 lb/hr CaO

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
Air Permit Z003 TV Application 501	No. 1 Lime Kiln	PM	≤ 1.0 lb/ADTP	Rule 335-3-4-.07 (2)(c)
Air Permit Z003 TV Application 501	No. 1 Lime Kiln **(State Only)**	TRS	≤ 20 ppm at 10% O_2	Rule 335-3-5-.04 (6)
Air Permit Z003 TV Application 501	No. 1 Lime Kiln	Opacity	≤ 20% except for one six-minute period per hour of ≤ 40%	Rule 335-3-4-.01 (1)
Air Permit Z003 TV Application 501	No. 1 Lime Kiln	PM (surrogate for HAPs)	≤ 0.29 gr/dscf at 10%O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Natural Gas		

No. 1 Lime Kiln
Provisos

No. 1 Lime Kiln Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.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 R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
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 R. 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Particulate matter emissions shall not exceed 1.0 pounds per air-dried ton of pulp.	Rule 335-3-4-.07 (2)(c)
2. In accordance with 40 CFR Part 63 Subpart MM, particulate matter emissions, as a surrogate for HAPS, shall not exceed 0.29 grains per dry standard cubic feet corrected to 10 percent oxygen. This alternative limit was established under the provisions of §63.862(a)(1)(ii) using the methods in §63.865(a)(1) and (2). The No. 1 Lime Kiln may be included in the bubble provisions of §63.862(a)(1)(ii) regardless of the number of hours that it operates. This alternative was approved, through the provisions of §63.94, as equivalent to the standards of 40 CFR Part 63, Subpart MM. All other requirements of 40 CFR Part 63, Subpart MM remain in effect.	Rule 335-3-11-.06 (38)
3. Pursuant to §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
4. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01 (2)
3. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)

No. 1 Lime Kiln
Provisos

No. 1 Lime Kiln Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour rolling 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 feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. 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
4. The owner or operator must establish operating limits for the scrubber liquid supply flow rate and pressure drop across the scrubber per §63.864(j).	Rule 335-3-11-.06 (38)
5. In accordance with §63.864(e)(10), the facility shall monitor and record the wet scrubber liquid supply flow rate and pressure drop at least once every successive 15-minute period during times when lime mud is fed. The parametric monitoring system shall meet the requirements listed in §63.8(c) and §63.864(e)(10)(i) and (ii). This unit shall not have six or more three-hour average parameter values within any six-month reporting period that are below the minimum operating limits established in accordance with §63.864(j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown. No more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
6. Per §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of five years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)
7. As specified in §63.864(h) and §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)
8. For compliance with 40 CFR 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 emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05

No. 1 Lime Kiln Federally Enforceable Provisos	Regulations
2. Records of all three-hour rolling 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
3. Records of all three-hour rolling average wet scrubber pressure drops across the scrubber inlet and liquid flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
4. Pursuant to §63.866(c)(2), the facility must maintain records of the CaO production rates in units of Mg/d or ton/d.	Rule 335-3-11-.06 (38)
5. In accordance with §63.866(b) and §63.864(k)(1), the facility must maintain records of any occurrence when corrective action is required (when a three-hour average flow rate or pressure drop is 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), and when a violation, per §63.864(k)(2), is noted (when six or more three-hour average flow rate or pressure drop values within any six-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.).	Rule 335-3-11-.06 (38)
6. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must maintain records of parametric monitoring data required in §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 records and documentation of supporting calculations for compliance determinations made under §63.865(a) through (d). The facility must also maintain records of the monitoring parameter ranges for the pressure drop and scrubber flow rates.	Rule 335-3-11-.06 (38)
7. In accordance with §63.866(d), in the event this unit fails to meet an emission limit in §63.862 or a CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: (i) For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. (ii) For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)

No. 1 Lime Kiln Federally Enforceable Provisos	Regulations
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 drops 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)
9. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
10. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 1 Lime Kiln
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
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 (State Only)	
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
Compliance and Performance Test Methods and Procedures (State Only)	
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
Emission Monitoring (State Only)	
1. A total reduced sulfur continuous emissions 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 (State Only)	
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 greater than 20 parts per million adjusted to 10 percent oxygen computed from 12-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)

No. 2 Lime Kiln
Informational Summary

Description: No. 2 Lime Kiln

Emission Unit No: Z013

Installation Date: 1980 **Reconstruction/Modification Date:** N/A

Operating Capacity: 39,829 lbs/hr CaO

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 MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z013 TV Application 502	No. 2 Lime Kiln	PM	≤ 0.13 gr/dscf at 10% O_2 when firing petroleum coke or 42 lb/hr (pet coke only) ≤ 0.066 gr/dscf at 10% O_2 and/or 21 lb/hr (gas only) When petroleum coke and gaseous fossil fuel are fired simultaneously in any combination, the allowed particulate emissions rate (in gr/dscf at 10% O_2) shall be determined by proration	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
Air Permit Z013 TV Application 502	No. 2 Lime Kiln	TRS	≤ 8 ppmvd at 10% O_2	Rule 335-3-10-.02 (28)
Air Permit Z013 TV Application 502	No. 2 Lime Kiln	SO_2	≤ 39 tons per year	Rule 335-3-14-.04 (9)
Air Permit Z013 TV Application 502	No. 2 Lime Kiln	Opacity	≤ 20% except for one six-minute period per hour ≤ 40%	Rule 335-3-4-.01 (1)
Air Permit Z013 TV Application 502	No. 2 Lime Kiln	HAPs	≤ 0.1 gr/dscf at 10% O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Natural Gas		
Pet Coke	10.0	

No. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal New Source Performance Standards 40 CFR 60 Subpart A and Subpart BB for particulate matter and total reduced sulfur.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
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 R. 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
5. This source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate and sulfur dioxide.	Rule 335-3-14-.04 (9)
Emission Standards	
1. Pursuant to §60.282(a)(3), particulate emissions shall not exceed 0.15 grams per dry standard cubic meters (0.066 grains per dry standard cubic feet) corrected to 10 percent oxygen, when gaseous fossil fuel is burned.	Rule 335-3-10-.02 (28)
2. Particulate emissions shall not exceed the more stringent of 0.13 grains per dry standard cubic feet at 10 percent oxygen and/or 42 pounds per hour when firing petroleum coke. Particulate emissions shall not exceed the more stringent of 0.066 grains per dry standard cubic feet at 10 percent oxygen, and/or 21 pounds per hour when gaseous fossil fuel is fired.	Rule 335-3-14-.04 (9)
3. When petroleum coke and gaseous fossil fuel are fired simultaneously in any combination, the allowed particulate emissions rate (in grains per standard dry cubic foot at 10 percent oxygen) shall be determined by proration using the following equation: $PSPM = [Y(0.066) + Z(0.13)]\ Y + Z$ Where: PSPM is the prorated standard for particulate matter when firing natural gas and petroleum coke simultaneously, in grains per standard dry cubic feet at 10 percent oxygen; Y is the percentage of total heat input from natural gas; and Z is the percentage of total heat input derived from petroleum coke.	Rule 335-3-14-.04 (9)
4. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01 (1)
5. The No. 2 Lime Kiln shall not emit more than 39 tons of sulfur dioxide per year.	Rule 335-3-14-.04 (9)
6. In accordance with §60.283(a)(5) of 40 CFR Part 60, Subpart BB total reduced sulfur emissions shall not exceed 8 parts per million by volume on a dry basis, corrected to 10 percent oxygen, averaged over discrete 12-hour periods per §60.284(c).	Rule 335-3-10-.02 (28)

No. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
7. In accordance with 40 CFR Part 63, Subpart MM, particulate matter emissions, as a surrogate for HAPS, shall not exceed 0.1 grains per dry standard cubic feet, corrected to 10 percent oxygen. This alternative limit was established under the provisions of §63.862(a)(1)(ii) using the methods in §63.865(a)(1) and (2).	Rule 335-3-11-.06 (38)
8. Pursuant to §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
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 335-3-10-.02 (28) Rule 335-3-10-.03 (1)
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60, Method 9.	Rule 335-3-4-.01 (2)
3. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60, Method 16, 16A, or 16B.	Rule 335-3-10-.02 (28)
4. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour rolling 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
3. For sulfur dioxide periodic monitoring, the facility shall obtain petroleum coke vendor certification of sulfur in fuel for every load received by the mill.	Rule 335-3-16-.05
4. A total reduced sulfur continuous emission monitor shall be installed, calibrated, maintained and operated in accordance with 40 CFR §60.284(a)(2), except that monitoring spans may be approved by the Director. Pursuant to §60.284(f), the procedures under §60.13 shall be followed for installation, evaluation, and operation of the total reduced sulfur continuous emissions monitor, and it shall be operated in accordance with the applicable procedures under Performance Specifications 1, 3, and 5 of Appendix B of 40 CFR Part 60.	Rule 335-3-10-.02 (28)
5. Total reduced sulfur emissions shall be calculated and recorded in accordance with §60.284(c).	Rule 335-3-10-.02 (28)

No. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
6. 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
7. The owner or operator must establish operating limits for the scrubber liquid supply flow rate and pressure drop across the scrubber per §63.864(j).	Rule 335-3-11-.06 (38)
8. In accordance with §63.864(e)(10), the facility shall monitor and record the wet scrubber liquid supply flow rate and the pressure drop at least once every successive 15-minute period during times when lime mud is fed. The parametric monitoring system shall meet the requirements listed in §63.8(c) and §63.864(e)(10)(i) and (ii). This unit shall not have six or more three-hour average parameter values within any six-month reporting period that are below the minimum operating limits established in accordance with §63.864(j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown. No more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
9. Per §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR Part 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of five years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)
10. As specified in §63.864(h) and §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)
11. For compliance with 40 CFR 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 emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling 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
3. Records of all three-hour rolling average wet scrubber pressure drops across the scrubber inlet and liquid flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
4. Records of the fuel usage and sulfur content of fuels, sufficient to calculate sulfur dioxide emissions, must be made and remain on file for five years.	Rule 335-3-16-.05

No. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
5. Pursuant to §63.866(c)(2), the facility must maintain records of the CaO production rates in units of Mg/d or ton/d.	Rule 335-3-11-.06 (38)
6. 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 greater than 8 parts per million adjusted to 10 percent oxygen computed from 12-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 335-3-16-.05
7. The Administrator will not consider periods of excess emissions reported under §60.284(d)(2) to be indicative of a violation of §60.11(d) if it is determined that the affected facility, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions.	Rule 335-3-10-.02 (28)
8. In accordance with §63.866(b) and §63.864(k)(1), the facility must maintain records of any occurrence when corrective action is required (when a three-hour average flow rate or pressure drop is 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), and when a violation, per §63.864(k)(2) is noted (when six or more three-hour average flow rate or pressure drop within any six-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).	Rule 335-3-11-.06 (38)

No. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
9. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must maintain records of parametric monitoring data required under §63.864, including any period when the 3-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 records and documentation of 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)
10. In accordance with §63.866(d), in the event this unit fails to meet an emission limit in §63.862 or a CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: (i) For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. (ii) For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)
11. 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. 2 Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
12. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
13. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 1 Power Boiler
Informational Summary

Description: No. 1 Power Boiler

Emission Unit No: Z006

Installation Date: 1967 **Reconstruction/Modification Date:** N/A

Operating Capacity: 707 MMBtu/hr (gas)
470 MMBtu/hr (biomass)

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	PM	≤ 0.12 lb/MMBtu	Rule 335-3-4-.03 (1) Rule 335-3-14-.04
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	SO_2	≤ 900 lb/hr.	Rule 335-3-14-.04
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	Opacity	≤ 20% except one six-minute period per hour ≤40%	Rule 335-3-4-.01 (1)
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	Filterable PM	≤ 0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	CO	≤ 3,500 ppmvd corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a three-hour average	Rule 335-3-11-.06 (107)
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	HCl	≤ 0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
Air Permit Z006 TV Application 801 & 802	No. 1 Power Boiler	Hg	≤ 5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Biomass		
Natural Gas		
Railroad Ties		

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.03 and R. 335-3-4-.08 for particulate matter.	Rule 335-3-4-.03 Rule 335-3-4-.08
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-14-.04, a Prevention of Significant Deterioration synthetic minor limits for particulate matter and sulfur dioxide.	Rule 335-3-14-.04
4. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart A as provided for in Table 10 of Subpart DDDDD and 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
6. This source is subject to the NO_x Budget Program of ADEM Admin. Code R. 335-3-8-.71.	Rule 335-3-8-.71
Emission Standards	
1. Particulate matter emissions shall not exceed 0.12 pounds per million Btu.	Rule 335-3-4-.03 Rule 335-3-14-.04
2. Sulfur dioxide emissions shall not exceed 900 pounds per hour.	Rule 335-3-14-.04
3. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01 (1)
4. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44 pounds per million Btu of heat input or 0.55 pounds per million Btu of steam output.	Rule 335-3-11-.06 (107)
5. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 parts per million by volume on a dry basis corrected to 3 percent oxygen, or 3.5 pounds per million Btu of steam output, on a three-hour average.	Rule 335-3-11-.06 (107)
6. Hydrogen chloride emissions shall not exceed 0.020 pounds per million Btu of heat input or 0.023 pounds per million Btu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63. The facility has elected to demonstrate compliance through emissions averaging with the No. 2 Power Boiler for hydrogen chloride emissions. Pursuant to §63.7522, averaged emissions shall not be more than 90 percent of the applicable emission limit.	Rule 335-3-11-.06 (107)

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
7. Mercury emissions shall not exceed 5.4E-06 pounds per million Btu of heat input or 6.2E-06 pounds per million Btu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63. The facility has elected to demonstrate compliance through emissions averaging with the No. 2 Power Boiler for mercury emissions. Pursuant to §63.7522, averaged emissions shall not be more than 90 percent of the applicable emission limit.	Rule 335-3-11-.06 (107)
8. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
9. The wash flow and total ESP power shall be maintained at or above the lowest hourly average level measured during the most recent performance test.	Rule 335-3-11-.06 (107)
10. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
11. The standards of §63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17. For compliance with 40 CFR Part 63 Subpart DDDDD, the facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 6.	Rule 335-3-10-.03 (1)
3. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01 (2)
4. Compliance with the mercury emission limit shall be determined through fuel analysis and in accordance with §63.7510, §63.7515, §63.7521, §63.7530, §63.7540, and Table 6 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)
5. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10. The facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
6. Compliance with the hydrogen chloride emission limit shall be determined through fuel analysis and in accordance with, §63.7510, §63.7515, §63.7521, §63.7530, §63.7540, and Table 6 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. Sulfur dioxide emissions shall be monitored by fuel sampling and analysis or fuel receipts.	Rule 335-3-16-.05

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
3. Since this unit is controlled by a Wet Electrostatic Precipitator, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05
4. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any three-hour rolling average steaming rate is greater than 110 percent of the average value set by a required periodic test that showed compliance or a test approved by the Department that showed compliance, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
5. Pursuant to §63.7500(a)(2) and Table 4, the facility shall maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test. Operation above the established maximum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
6. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average WESP total liquid flow rate or total inlet secondary electrical power to the WESP is less than the respective lowest one-hour average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours. Operation below the established minimum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
7. If the wash flow to the Wet Electrostatic Precipitator is off, or if any WESP three-hour rolling average total power is less than 90 percent of its respective average value set by the required complying periodic test or a complying test approved by the Department, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
8. In accordance with 40 CFR §63.7525(a), an oxygen analyzer system, as defined in 40 CFR §63.7575, shall be installed, operated, and maintained pursuant to §63.7500(a)(2) and Table 4. The 30-day rolling average oxygen level shall be set no lower than the lowest hourly average oxygen concentration measured during the most recent CO performance test as the operating limit for oxygen.	Rule 335-3-11-.06 (107)
9. A particulate matter and carbon monoxide performance test shall be performed annually within 13 months of the previous test. If performance tests for at least two consecutive years show that emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
10. In accordance with 40 CFR 63 Subpart DDDDD, the facility must conduct monthly fuel analysis for all fuels burned to demonstrate compliance with mercury and hydrogen chloride as stated in §63.7521. Fuel analysis may be completed any time within a calendar month as long as the analysis is separated from the previous analysis by 14 calendar days according to §63.7515. If each of 12 consecutive monthly fuel analysis demonstrates 75 percent or less of the compliance level, the facility may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly samples exceed 75 percent of the compliance level or the facility begins to burn new fuel, the facility must return to monthly monitoring for that fuel until 12 months of fuel analyses are again less than 75 percent of the compliance level as specified by §63.7515. If sampling is conducted on one day per month, samples should be no less than 14 days apart, but if multiple samples are taken per month, the 14-day restriction does not apply.	Rule 335-3-11-.06 (107)
11. The facility must demonstrate continuous compliance with each applicable emission limit, work practice standard, and operating limit of 40 CFR 63 Subpart DDDDD according to §63.7540(a) and Table 8.	Rule 335-3-11-.06 (107)
12. The facility must demonstrate ongoing monthly compliance through emission averaging pursuant to §63.7522(f) and §63.7541. Any instance the facility fails to comply with the continuous monitoring requirements of §63.7541(a)(1) – (5) is a deviation.	Rule 335-3-11-.06 (107)
13. Pursuant to §63.7515(d) and Table 3, the facility must conduct an annual performance tune-up according to procedures in §63.7540(a)(10). Each annual tune-up must be completed no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
14. The owners and operators, and, to the extent applicable, the NO_x authorized account representative of each NO_x Budget source and each NO_x Budget unit at the source shall comply with the monitoring and reporting requirements of ADEM Admin. Code R. 335-3-8-.72 for any control period during which a NO_x Budget Unit operates.	Rule 335-3-8-.71
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Maintain sulfur and Btu content records of fuels fired on file and available for inspection for at least five years.	Rule 335-3-16-.05
3. Records of the presence of wash flow to the WESP during all three-hour rolling periods shall be made and maintained on file, available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-16-.05
4. Records of all three-hour rolling average WESP total power values shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-16-.05

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
5. Records of all three-hour rolling average steaming rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-16-.05
6. A record of the rolling 30-day average operating load shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
7. Records of all 30-day rolling average WESP liquid flow rates and total secondary electrical power values shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
8. A record of the rolling 30-day average oxygen content shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
9. A site-specific monitoring plan shall be developed in accordance with 40 CFR Part §63.7505(d), kept on file and be readily available for review.	Rule 335-3-11-.06 (107)
10. Pursuant to §63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to §63.7530 and Table 7.	Rule 335-3-11-.06 (107)
11. Pursuant to §63.7555(e), the facility must retain a copy of the emission averaging implementation plan developed pursuant to §63.7522(g).	Rule 335-3-11-.06 (107)
12. When conducting a performance test under 40 CFR §63 Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
13. This source shall submit all applicable reports required under 40 CFR §63.7550 and Table 9.	Rule 335-3-11-.06 (107)
14. This source shall maintain all applicable records required under 40 CFR §63.7555. Records must be readily available for review according to §63.10(b)(1) for a period of five years.	Rule 335-3-11-.06 (107)
15. The facility shall maintain all records found in ADEM Admin Code R. 335-3-8-.71(6)(c) for a period of five years following the date the document is created.	Rule 335-3-8-.71 (6)(c)
16. The facility must submit a monitoring protocol for review and approval by the Department for each NO_x Budget Unit.	Rule 335-3-8-.72 (1)(e)

No. 1 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
17. For each control period in which one or more NO_x Budget Units at a source are subject to the NO_x Budget Program, the NO_x authorized account representative of the source shall submit to the Department by November 30 of that year a compliance certification report for each source covering all such units. The compliance report shall include the information found in ADEM Admin. Code R. 335-3-8-.72(2)(a)1.	Rule 335-3-8-.72

No. 2 Power Boiler
Informational Summary

Description: No. 2 Power Boiler

Emission Unit No: Z008

Installation Date: 1980 **Reconstruction/Modification Date:** N/A

Operating Capacity: 515 MMBtu/hr (coal)
568 MMBtu/hr (gas)
630 MMBtu/hr (biomass)

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart D
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	PM	≤ 0.10 lb/MMBtu and/or ≤ 61 lb/hr (three-hour average).	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	SO_2	≤ 1.2 lb/MMBtu (solid fossil fuel or solid fossil fuel and wood residue) and/or ≤ 572 lb/hr (three-hour average).	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	NO_x	Shall not exceed: a. ≤ 0.20 lb/MMBtu (gaseous fossil fuel only) (three-hour average). b. ≤ 0.30 lb/MMbtu (gaseous fossil fuel and wood residue) (three-hour average) c. ≤ 0.70 lb/MMBtu (solid fossil fuel or solid fossil fuel and wood residue) (three-hour average)	Rule 335-3-10-.02 (2)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	NO_x	≤ 427 lb/hr (three-hour average).	Rule 335-3-14-.04 (9)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	Opacity	≤ 20% except for one six-minute period per hour ≤ 27%	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	Filterable PM	≤ 0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	CO	≤ 3,500 ppmvd corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a three-hour average	Rule 335-3-11-.06 (107)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	HCl	≤ 0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
Air Permit Z008 TV Application 803 & 804	No. 2 Power Boiler	Hg	≤ 5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Coal	2.9	14
Biomass		
Natural Gas		
Railroad Ties		

No. 2 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02 (1) and (2) New Source Performance Standards listed in 40 CFR 60, Subpart D, and a Prevention of Significant Deterioration Best Available Control Technology limit for particulate matter, nitrogen oxides, opacity, and sulfur dioxide.	Rule 335-3-10-.02 (1) and (2) Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart A as provided for in Table 10 of Subpart DDDDD and 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
4. This source is subject to the NOx Budget Program of ADEM Admin. Code R. 335-3-8-.71.	Rule 335-3-8-.71
Emission Standards	
1. Particulate matter emissions shall not exceed either 0.10 pounds per million Btu heat input and/or 61 pounds per hour (three-hour average).	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
2. Sulfur Dioxide emissions shall not exceed either 1.2 pounds per million Btus heat input from solid fossil fuel or solid fossil fuel and wood residue, and/or 572 pounds per hour (three-hour average).	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
3. Nitrogen oxide emissions shall not exceed: a. 0.20 pounds per million Btu heat input derived from gaseous fossil fuel only (three-hour average) b. 0.30 pounds per million Btu heat input derived from gaseous fossil fuel and wood residue (three-hour average) c. 0.70 pounds per million Btu heat input derived from solid fossil fuel or solid fossil fuel and wood residue (three-hour average)	Rule 335-3-10-.02 (2)
4. Nitrogen oxide emissions shall not exceed 427 pounds per hour (three-hour average)	Rule 335-3-14-.04 (9)
5. Opacity shall not be greater than 20 percent except for one six-minute period per hour of not more than 27 percent.	Rule 335-3-10-.02 (2) Rule 335-3-14-.04 (9)
6. Pursuant to §63.7500(a)(2), the facility must maintain opacity to less than or equal to 10 percent opacity or the highest hourly average opacity reading measured during the performance test run demonstrating compliance with the PM emission limitation (daily block average).	Rule 335-3-11-.06 (107)
7. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44 pounds per million Btu of heat input or 0.55 pounds per million Btu of steam output.	Rule 335-3-11-.06 (107)
8. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3 percent oxygen, or 3.5 pounds per million Btu of steam output, on a three-hour average.	Rule 335-3-11-.06 (107)

No. 2 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
9. Hydrogen chloride emissions shall not exceed 0.020 pounds per million Btu of heat input or 0.023 pounds per million Btu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63. The facility has elected to demonstrate compliance through emissions averaging with the No. 1 Power Boiler for hydrogen chloride emissions. Pursuant to §63.7522, averaged emissions shall not be more than 90 percent of the applicable emission limit.	Rule 335-3-11-.06 (107)
10. Mercury emissions shall not exceed 5.4E-06 pounds per million Btu of heat input or 6.2E-06 pounds per million Btu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63. The facility has elected to demonstrate compliance through emissions averaging with the No. 1 Power Boiler for mercury emissions. Pursuant to §63.7522, averaged emissions shall not be more than 90 percent of the applicable emission limit.	Rule 335-3-11-.06 (107)
11. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
12. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
13. The standards of §63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17. For compliance with 40 CFR Part 63 Subpart DDDDD, the facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 6.	Rule 335-3-10-.03 (1)
3. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-10-.02 (2)
4. Compliance with the mercury emission limit shall be determined through fuel analysis and in accordance with §63.7510, §63.7515, §63.7521, §63.7530, §63.7540, and Table 6 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)
5. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10. The facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
6. Compliance with the hydrogen chloride emission limit shall be determined through fuel analysis and in accordance with §63.7510, §63.7515, §63.7521, §63.7530, §63.7540, and Table 6 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)

No. 2 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any three-hour rolling average steaming rate is greater than 110 percent of the average value set by a required periodic test that showed compliance or a test approved by the Department that showed compliance, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. Pursuant to §63.7500(a)(2) and Table 4, The facility shall maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test. Operation above the established maximum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
4. A continuous opacity monitoring system is to be installed, operated, and maintained. If the average of any ten consecutive six-minute opacity averages exceeds 10 percent, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
5. The facility shall monitor opacity through the use of a COMS and meet the requirements of §63.7525(c).	Rule 335-3-11-.06 (107)
6. A nitrogen oxide continuous emissions monitor shall be installed, calibrated, operated, and maintained.	Rule 335-3-16-.05
7. Sulfur dioxide emissions shall be monitored by fuel sampling and analysis or fuel receipts.	Rule 335-3-16-.05
8. In accordance with 40 CFR §63.7525(a), an oxygen analyzer system, as defined in 40 CFR §63.7575, shall be installed, operated, and maintained pursuant to §63.7500(a)(2) and Table 4. The 30-day rolling average oxygen level shall be set no lower than the lowest hourly average oxygen concentration measured during the most recent CO performance test as the operating limit for oxygen.	Rule 335-3-11-.06 (107)
9. In accordance with 40 CFR 63 Subpart DDDDD, the facility must conduct monthly fuel analysis for all fuels burned to demonstrate compliance with mercury and hydrogen chloride as stated in §63.7521. Fuel analysis may be completed any time within a calendar month as long as the analysis is separated from the previous analysis by 14 calendar days according to §63.7515. If each of 12 consecutive monthly fuel analysis demonstrates 75 percent or less of the compliance level, the facility may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly samples exceed 75 percent of the compliance level or the facility begins to burn new fuel, the facility must return to monthly monitoring for that fuel until 12 months of fuel analyses are again less than 75 percent of the compliance level as specified by §63.7515. If sampling is conducted on one day per month,	Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
samples should be no less than 14 days apart, but if multiple samples are taken per month, the 14-day restriction does not apply.	
10. A particulate matter and carbon monoxide performance test shall be performed annually within 13 months of the previous test. If performance tests for at least two consecutive years show that emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
11. The facility must demonstrate continuous compliance with each applicable emission limit, work practice standard, and operating limit of 40 CFR 63 Subpart DDDDD according to §63.7540(a) and Table 8.	Rule 335-3-11-.06 (107)
12. The facility must demonstrate ongoing monthly compliance through emission averaging pursuant to §63.7522(f) and §63.7541. Any instance the facility fails to comply with the continuous monitoring requirements of §63.7541(a)(1) – (5) is a deviation.	Rule 335-3-11-.06 (107)
13. Pursuant to §63.7515(d) and Table 3, the facility must conduct an annual performance tune-up according to procedures in §63.7540(a)(10). Each annual tune-up must be completed no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
14. The owners and operators, and, to the extent applicable, the NO_x authorized account representative of each NO_x Budget source and each NO_x Budget unit at the source shall comply with the monitoring and reporting requirements of ADEM Admin. Code R. 335-3-8-.72 for any control period during which a NO_x Budget Unit operates.	Rule 335-3-8-.71
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling average steaming rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-16-.05
3. A record of the rolling 30-day average operating load shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
4. Records of all six-minute average opacities shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-11-.06 (107)
5. All three-hour rolling average nitrogen oxide emission rates shall be recorded and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05
6. Maintain sulfur and Btu content records of fuels fired on file and available for inspection for at least five years.	Rule 335-3-16-.05

No. 2 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
7. 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 20 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
8. A report of excess nitrogen oxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than the applicable standards computed on any three-hour period during (arithmetic average of three contiguous one-hour periods) (data recorded during periods of nitrogen oxide 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 nitrogen oxide 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 nitrogen oxide emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-16-.05
9. A record of the rolling 30-day average oxygen content shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
10. A site-specific monitoring plan shall be developed in accordance with 40 CFR Part §63.7505(d), kept on file and be readily available for review.	Rule 335-3-11-.06 (107)

No. 2 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
11. Pursuant to §63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to §63.7530 and Table 7.	Rule 335-3-11-.06 (107)
12. Pursuant to §63.7555(e), the facility must retain a copy of the emission averaging implementation plan developed pursuant to §63.7522(g).	Rule 335-3-11-.06 (107)
13. When conducting a performance test under 40 CFR §63 Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
14. This source shall submit all applicable reports required under 40 CFR §63.7550 and Table 9.	Rule 335-3-11-.06 (107)
15. This source shall maintain all applicable records required under 40 CFR §63.7555. Records must be readily available for review according to §63.10(b)(1) for a period of five years.	Rule 335-3-11-.06 (107)
16. The facility shall maintain all records found in ADEM Admin Code R. 335-3-8-.71(6)(c) for a period of five years following the date the document is created.	Rule 335-3-8-.71 (6)(c)
17. The facility must submit a monitoring protocol for review and approval by the Department for each NO_x Budget Unit.	Rule 335-3-8-.72 (1)(e)
18. For each control period in which one or more NO_x Budget Units at a source are subject to the NO_x Budget Program, the NO_x authorized account representative of the source shall submit to the Department by November 30 of that year a compliance certification report for each source covering all such units. The compliance report shall include the information found in ADEM Admin. Code R. 335-3-8-.72(2)(a)1.	Rule 335-3-8-.72

Pet Coke and Coal Unloading, Crushing and Storage
Informational Summary

Description: Pet Coke and Coal Unloading, Crushing, and Storage

Emission Unit	Installation Date:	Reconstruction/Modification Date:
X019 Coal	1980	N/A
X020 Pet Coke	1985	2015

Emission Unit:	Operating Capacity:	Operating Schedule:
X019 Coal	33,300 lb/hr	8760 hours/year
X020 Pet Coke	5.3 ton/hr	8760 hours/year

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

40 CFR Part 60 Subpart Y

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X019	Coal Unloading, Crushing and Storage	PM	≤ 20%	Rule 335-3-10-.02 (25) Rule 335-3-14-.04 (9)
X020	Petroleum Coke Crushing and Handling System	PM	≤ 20%	Rule 335-3-4-.01 (1)

Pet Coke and Coal Unloading, Crushing and Storage
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. The coal unloading, crushing, and storage sources are subject to 40 CFR Part 60 Subpart Y and ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology limit for particulate matter.	Rule 335-3-10-.02 (25) Rule 335-3-14-.04 (9)
3. The pet coke unloading, crushing, and storage sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
Emission Standards	
1. Opacity from coal unloading, crushing, and storage sources shall not be equal to or greater than 20 percent.	Rule 335-3-10-.02 (25) Rule 335-3-14-.04 (9)
2. Opacity from pet coke unloading, crushing, and storage sources shall not be equal to or greater than 20 percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the coal processing opacity limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.	Rule 335-3-10-.02 (25) Rule 335-3-10-.03 (1)
2. Compliance with the coke processing opacity limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. For opacity periodic monitoring if coal is being processed, once per day, (weather permitting) the system is to be checked by a person knowledgeable in the theory of opacity. If the opacity is higher than normal, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours.	Rule 335-3-10-.02 (25) Rule 335-3-16-.05
2. For opacity periodic monitoring if coke is being processed, once per day, (weather permitting) the system is to be checked by a person knowledgeable in the theory of opacity. If the opacity is higher than normal, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. Records of any instance of higher than normal opacity from coal processing shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-10-.02 (25) Rule 335-3-16-.05
2. Records of any instance of higher than normal opacity from coal processing shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

No. 1 Recovery Furnace
Informational Summary

Description: No. 1 Recovery Furnace

Emission Unit No: Z001

Installation Date: 1967 **Reconstruction/Modification Date:** N/A

Operating Capacity: 132,000 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 MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z001 TV 901	No. 1 Recovery Furnace	PM	≤ 1.11 lb/ADTP and/or ≤ 60 lb/hr	Rule 335-3-4-.07 (5) Rule 335-3-16-.05
Air Permit Z001 TV 901	No. 1 Recovery Furnace	TRS	≤ 20 ppm at 8% O_2 (daily 12-hour basis)	Rule 335-3-5-.04 Rule 335-3-14-.04 (9)
Air Permit Z001 TV 901	No. 1 Recovery Furnace **(State Only)**	Opacity	≤ 35%	Rule 335-3-10-.02 (28)
Air Permit Z001 TV 901	No. 1 Recovery Furnace	Opacity	≤ 35% for 2% or more of the operating time when spent pulping liquor is fed within any semiannual period	Rule 335-3-11-.06 (38)
Air Permit Z001 TV 901	No. 1 Recovery Furnace	HAPs	Particulate matter as a surrogate for HAPs shall not exceed 0.023 gr/dscf at 8% O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Black Liquor Solids		
2, 4, and 5 Fuel Oil	2.9	
Used Oil	1.0	0.8

No. 1 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 1 Recovery Furnace is subject to the requirements of ADEM Admin. Code R. 335-3-4-.07 particulate matter from kraft pulp mills.	Rule 335-3-4-.07 Rule 335-3-16-.05
3. The No. 1 Recovery Furnace is subject to the applicable requirements of ADEM Admin. Code R. 335-3-5-.04 and R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology limit for total reduced sulfur emissions.	Rule 335-3-5-.04 Rule 335-3-14-.04 (9)
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 the more stringent of 1.11 pounds per air dried ton of pulp and/or 60 pounds per hour.	Rule 335-3-4-.07 (5) Rule 335-3-16-.05
2. Total reduced sulfur emissions shall not exceed 20 parts per million, corrected to 8 percent oxygen, on a daily 12-hour basis. 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 (3) Rule 335-3-14-.04 (9)
3. In accordance with 40 CFR Part 63, Subpart MM, as a surrogate for HAPs, the particulate matter emissions from this unit shall not exceed 0.023 grains per dry standard cubic feet at 8 percent oxygen. This alternative limit was established under the provisions of §63.862 (a)(1)(ii) using the methods in §63.865(a)(1) and (2).	Rule 335-3-11-.06 (38)
4. Per §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
5. In accordance with 40 CFR Part 63, Subpart MM, per §63.864(k)(2)(i), this unit's opacity 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)
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 335-3-10-.03 (1)

No. 1 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
2. 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 335-3-10-.03 (1)
3. 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 335-3-11-06 (38)
4. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. An 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. The black liquor firing rate shall be monitored on a three-hour rolling average basis. If any three-hour rolling 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 liquor firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. A continuous emission monitoring system for the measurement of total reduced sulfur and oxygen shall be installed, operated, and maintained in accordance with 40 CFR §60.284.	Rule 335-3-5-.04 (8)
5. As specified in §63.864(h) and §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 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)
7. In accordance with §63.864(e)(1), the facility must maintain proper operation of the ESP's automatic voltage control (AVC).	Rule 335-3-11-.06 (38)
8. Pursuant to §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of five years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)

No. 1 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling average liquor firing rates shall be made and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05
3. 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 20 parts per million adjusted to 8 percent oxygen and over computed from 12-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)
4. In accordance with §63.866(b) and §63.864(k)(1), the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive six-minute averages result in a measurement greater than 20 percent opacity when spent pulping liquor is fed, and when a violation, per §63.864(k)(2), is noted (when opacity is greater than 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. In accordance with §63.866(c)(1), 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. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must also maintain records and documentation of supporting calculations made for compliance determinations made under §63.865(a) through (d).	Rule 335-3-11-.06 (38)
7. 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)

No. 1 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
8. In accordance with §63.866(d), in the event this unit fails to meet an emission limit in §63.862 or any opacity operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: a. For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. b. For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with 63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)
9. 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 occurrences when the average of ten consecutive six-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. 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. 1 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
10. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed; or (iv) The black liquor solids firing rate for any kraft recovery furnace during any 24-hour averaging period is increased by more than 10 percent above the level measured during the most recent performance test. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
11. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 1 Recovery Furnace
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. The No. 1 Recovery Furnace is subject to the requirements of ADEM Admin. Code 335-3-16-.05(c) concerning monitoring and record keeping requirements.	Rule 335-3-16-.05 (c)
2. The No. 1 Recovery Furnace is subject to the applicable requirements of Rule 335-3-10-.02 (28), such that the opacity limit is the same as, but the source is not subject to, the New Source Performance Standards as listed in 40 CFR Part 60, Subpart BB.	Rule 335-3-10-.02 (1) and (28)
Emission Standards (State Only)	
1. 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)
Recordkeeping and Reporting Requirements (State Only)	
1. 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. 1 Smelt Tank
Informational Summary

Description: No. 1 Smelt Tank

Emission Unit No: Z002

Installation Date: 1967 **Reconstruction/Modification Date:** N/A

Operating Capacity: 132,000 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 MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z002 TV 902 & 903	No. 1 Smelt Tank	PM	≤ 0.5 lb/ADTP	Rule 335-3-4-.07 (2)(b)
Air Permit Z002 TV 902 & 903	No. 1 Smelt Tank **(State Only)**	TRS	≤ 0.033 lb/TBLS	Rule 335-3-5-.04 (7)
Air Permit Z002 TV 902 & 903	No. 1 Smelt Tank	Opacity	≤ 20% except one six-minute period per hour ≤ 40%	Rule 335-3-4-.01 (1)
Air Permit Z002 TV 902	No. 1 Smelt Tank	HAPs (Stack 1)	Particulate matter as a surrogate for HAPs shall not exceed 0.25 lb/TBLS	Rule 335-3-11-.06 (38)
Air Permit Z002 TV 903	No. 1 Smelt Tank	HAPs (Stack 2)	Particulate matter as a surrogate for HAPs shall not exceed 0.25 lb/TBLS	Rule 335-3-11-.06 (38)

No. 1 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 1 Smelt Tank is subject to the requirements of ADEM Admin Code R. 335-3-4-.07 (2)(b) for 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 R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
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 R. 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.5 pounds per air dried ton of pulp.	Rule 335-3-4-.07 (2)(b)
2. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01 (1)
3. In accordance with 40 CFR Part 63, Subpart MM, particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.25 pounds per ton of black liquor solids fired (stack 1) and 0.25 pounds per ton of black liquor solids fired (stack 2). This alternative limit was established under the provisions of §63.862(a)(1)(ii) using the methods in §63.865(a)(1) and (2).	Rule 335-3-11-.06 (38)
4. Pursuant to §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
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 335-3-10-.03 (1)
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01 (2)
3. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour rolling average liquor firing rate is greater than 110 percent of its average value set by the	Rule 335-3-16-.05

No. 1 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
required complying periodic test or a complying test approved by the Department, the liquor firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	
3. The owner or operator must establish operating limits for the scrubber liquid supply flow rate and pressure drop across the scrubber per §63.864(j).	Rule 335-3-11-.06 (38)
4. In accordance with §63.864(e)(10), the facility shall monitor and record the wet scrubber liquid supply flow rate and the pressure drop at least once every successive 15-minute period during times when spent pulping liquor is fed. The parametric monitoring system shall meet the requirements listed in §63.8(c) and §63.864(e)(10)(i) and (ii). 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, with the exception of scrubber differential pressure during periods of startup and shutdown. No more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
5. Pursuant to §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of five years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)
6. 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
7. As specified in §63.864(h) and §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)
8. A periodic 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 emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling average liquor firing rates shall be made and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05

No. 1 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
3. In accordance with §63.866(b) and §63.864(k)(1), the facility must maintain records of any occurrence when corrective action is required (when a three-hour average flow rate or pressure drop is below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed, with the exception of scrubber differential pressure during periods of startup and shutdown), and when a violation, per §63.864(k)(2), is noted (when six or more three-hour average flow rates or pressure drops within any six-month period are below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed, with the exception of scrubber differential pressure during periods of startup and shutdown).	Rule 335-3-11-.06 (38)
4. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), 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 spent pulping liquor 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, and the time corrective action was initiated and completed, and the 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 operating 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 of supporting calculations for compliance determination made under §63.865(a) through (d). The facility must also maintain records of the monitoring parameter ranges for the scrubber flow rates and pressure drops.	Rule 335-3-11-.06 (38)
5. In accordance with §63.866(d), in the event this unit fails to meet an emission limit in §63.862 or a CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: a. For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. b. For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)

No. 1 Smelt Tank
Provisos

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 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)
7. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed; or (iv) The black liquor solids firing rate for any kraft recovery furnace during any 24-hour averaging period is increased by more than 10 percent above the level measured during the most recent performance test. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
8. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 1 Smelt Tank
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. The No. 1 Smelt Tank is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (7) concerning total reduced sulfur from kraft pulp mill smelt tanks	Rule 335-3-5-.04 (7)
Emission Standards (State Only)	
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 (State Only)	
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
Emission Monitoring (State Only)	
1. For total reduced sulfur periodic monitoring, if any three-hour rolling average wet scrubber dilute caustic recirculation flow rate is less than 90 percent of its average value set by the required complying periodic test, or a complying test approved by the Department, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
2. A total reduced sulfur emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements (State Only)	
1. A total reduced sulfur emissions test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
2. Records of all three-hour rolling average wet scrubber dilute caustic recirculation flow rates shall be made and maintained on file, available for inspection for at least five years. Results of the daily analytical tests to assure that a dilute caustic solution is maintained shall be recorded and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05

No. 2 Recovery Furnace
Informational Summary

Description: No. 2 Recovery Furnace

Emission Unit No: Z011

Installation Date: 1980 **Reconstruction/Modification Date:** N/A

Operating Capacity: 159,000 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 60 Subpart BB
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z011 TV 904 & 905	No. 2 Recovery Furnace	PM	≤ 0.044 gr/dscf at 8% O_2 and/or ≤ 73 lb/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
Air Permit Z011 TV 904 & 905	No. 2 Recovery Furnace	TRS	≤ 5 ppmv at 8% O_2 and/or ≤ 7 lb/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04
Air Permit Z011 TV 904 & 905	No. 2 Recovery Furnace	SO_2	≤ 250 ppmv at 8% O_2 and/or ≤ 482 lb/hr (Three-hour average)	Rule 335-3-14-.04
Air Permit Z011 TV 904 & 905	No. 2 Recovery Furnace	Opacity	≤ 35%	Rule 335-3-10-.02 (28)
Air Permit Z011 TV 904 & 905	No. 2 Recovery Furnace	Opacity	≤ 35% for 2% or more of the operating time when spent pulping liquor is fed within any semiannual period	Rule 335-3-11-.06 (38)
Air Permit Z011 TV 904	No. 2 Recovery Furnace	HAPs (Stack 1)	Particulate matter as a surrogate for HAPs shall not exceed 0.034 gr/dscf at 8% O_2	Rule 335-3-11-.06 (38)
Air Permit Z011 TV 905	No. 2 Recovery Furnace	HAPs (Stack 2)	Particulate matter as a surrogate for HAPs shall not exceed 0.034 gr/dscf at 8% O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	% Sulfur	Max % Ash
Black Liquor Solids		
2, 4, and 5 Fuel Oil	2.9	
Used Oil	1.0	

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 2 Recovery Furnace is subject to the applicable requirements of the Federal New Source Performance Standards found in 40 CFR Part 60 Subpart A and Subpart BB for particulate matter, total reduced sulfur, and opacity.	Rule 335-3-10-.02 (1) and (28)
3. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration Best Available Control Technology limits for particulate matter.	Rule 335-3-14-.04 (9)
4. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04 Prevention of Significant Deterioration synthetic minor limits for total reduced sulfur and sulfur dioxide.	Rule 335-3-14-.04
5. 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 R. 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. In accordance with 40 CFR Part 60, Subpart BB, particulate matter emissions shall not exceed the more stringent of 0.044 grains per dry standard cubic feet at 8 percent oxygen or 73 pounds per hour.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
2. In accordance with 40 CFR Part 60, Subpart BB, total reduced sulfur emissions shall not exceed the more stringent of 5 parts per million by volume on a dry basis, corrected to 8 percent oxygen, averaged over 12-hour periods per §60.284(c) or 7 pounds per hour.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04
3. In accordance with 40 CFR Part 63, Subpart MM, as a surrogate for HAPs, the particulate matter emissions from this unit shall not exceed 0.034 grains per dry standard cubic feet at 8 percent oxygen (Stack 1) and 0.034 grains per dry standard cubic feet at 8 percent oxygen (Stack 2). This alternative limit was established under the provisions of §63.862(a)(1)(ii) using the methods in §63.865(a)(1) and (2).	Rule 335-3-11-.06 (38)
4. Per §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
5. In accordance with 40 CFR Part 63, Subpart MM, per §63.864(k)(2)(i), this unit's opacity 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)

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
6. Sulfur dioxide emissions shall not exceed the more stringent of 250 parts per million by volume at 8 percent oxygen or 482 pounds per hour (three-hour average)	Rule 335-3-14-.04
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 335-3-10-.03 (1)
2. 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 335-3-10-.03 (1)
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60, Method 6.	Rule 335-3-10-.03 (1)
4. 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 335-3-11-.06 (38)
5. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. An 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. The black liquor firing rate shall be monitored on a three-hour rolling average basis. If any three-hour rolling 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 liquor firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. A continuous emission monitoring system for the measurement of total reduced sulfur and oxygen shall be installed, operated, and maintained per 60.284(a)(2). Pursuant to §60.284(f), the procedures under §60.13 shall be followed for installation, evaluation, and operation of the total reduced sulfur continuous emissions monitor, and it shall be operated in accordance with the applicable procedures under Performance Specifications 1, 3, and 5 of Appendix B of 40 CFR Part 60.	Rule 335-3-10-.02 (28)
5. Total reduced sulfur emissions shall be calculated and recorded in accordance with §60.284(c).	Rule 335-3-10-.02 (28)
6. A sulfur dioxide emissions test shall be performed at least once every five years.	Rule 335-3-16-.05
7. As specified in §63.864(h) and §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)

Federally Enforceable Provisos	Regulations
8. A periodic 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)
9. In accordance with §63.864(e)(1), the facility must maintain proper operation of the ESP's automatic voltage control (AVC).	Rule 335-3-11-.06 (38)
10. Pursuant to §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of five years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling average liquor firing rates shall be made and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05
3. 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 12-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)

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
4. The Administrator will not consider periods of excess emissions reported under §60.284(d)(2) to be indicative of a violation of §60.11(d) provided the Administrator determines that the facility, including air pollution control equipment is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions and if the percent of the total number of possible contiguous periods of excess emissions in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the facility is not operating) during which excess emissions occur does not exceed: a. One percent for TRS emissions b. Six percent for average opacities	Rule 335-3-10-.02 (28)
5. In accordance with §63.866(b) and §63.864(k)(1), 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 when spent pulping liquor is fed, and when a violation, per §63.864(k)(2), is noted (when opacity is greater than 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)
6. In accordance with §63.866(c)(1), 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)
7. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must also maintain records and documentation of supporting calculations made for compliance determinations made under §63.865(a) through (d).	Rule 335-3-11-.06 (38)
8. 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)
9. In accordance with §63.866(d), in the event this unit fails to meet and emission limit in §63.862 or any opacity operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: a. For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. b. For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with 63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
10. 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 occurrences when the average of ten consecutive six-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. 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)
11. A sulfur dioxide emissions test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
12. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed; or (iv) The black liquor solids firing rate for any kraft recovery furnace during any 24-hour averaging period is increased by more than 10 percent above the level measured during the most recent performance test. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
13. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 2 Smelt Tank
Informational Summary

Description: No. 2 Smelt Tank

Emission Unit No: Z012

Installation Date: 1980 **Reconstruction/Modification Date:** N/A

Operating Capacity: 159,000 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 60 Subpart BB
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Air Permit Z012 TV 906	No. 2 Smelt Tank	PM	≤ 0.1 g/kg BLS (dry weight) [0.2 lb/TBLS (dry weight)] and/or ≤ 16 lb/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
Air Permit Z012 TV 902 & 903	No. 2 Smelt Tank	TRS	≤ 0.033 lb/TBLS and/or ≤ 2.6 lb/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04
Air Permit Z012 TV 902 & 903	No. 2 Smelt Tank	Opacity	≤ 20% except one six-minute period per hour ≤ 40%	Rule 335-3-4-.01 (1)
Air Permit Z012 TV 902 & 903	No. 2 Smelt Tank	HAPs	Particulate matter as a surrogate for HAPs shall not exceed 0.19 lbs/TBLS	Rule 335-3-11-.06 (38)

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of the Federal New Source Performance Standards found in 40 CFR Part 60 Subpart A and Subpart BB for particulate matter and total reduced sulfur.	Rule 335-3-10-.02 (1) and (28)
4. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration Best Available Control Technology limits for particulate matter.	Rule 335-3-14-.04 (9)
5. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04 Prevention of Significant Deterioration synthetic minor limits for total reduced sulfur.	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 as referenced in ADEM Admin. Code R. 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 black liquor solids (dry weight) or 16 pounds per hour.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
2. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01 (1)
3. Total reduced sulfur emissions shall not exceed 0.033 pounds per ton of black liquor solids.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04
4. In accordance with 40 CFR Part 63, Subpart MM, particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.19 pounds per ton of black liquor solids fired. This alternative limit was established under the provisions of §63.862(a)(1)(ii) using the methods in §63.865(a)(1) and (2).	Rule 335-3-11-.06 (38)
5. Pursuant to §63.862(a)(1)(ii)(D), each owner or operator of an existing kraft recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in §63.862(a)(1)(ii) if either: a. The air pollution control system for any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is modified (as defined in §63.861) or replaced; or b. Any unit for which an emission limit was established per §63.862(a)(1)(ii)(A) is shut down for more than 60 consecutive days.	Rule 335-3-11-.06 (38)
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 335-3-10-.03 (1)

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9 or other method approved by the Department.	Rule 335-3-4-.01
3. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60, Method 16, 16A, or 16B.	Rule 335-3-10-.03 (1)
4. In accordance with 40 CFR Part 63, Subpart MM, the facility must use procedures in §63.865(b)(1)-(6) to determine compliance with §63.862(a).	Rule 335-3-11-.06 (38)
Emission Monitoring	
1. A particulate matter emissions test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour rolling 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 liquor firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. The owner or operator must establish operating limits for the scrubber liquid supply flow rate and scrubber fan amperage per §63.864(j) or approval letter from EPA dated September 24, 2019.	Rule 335-3-11-.06 (38)
4. In accordance with §63.864(e)(10), the facility shall monitor and record the wet scrubber liquid supply flow rate and fan amperage at least once every successive 15-minute period during times when spent pulping liquor is fed. The parametric monitoring system shall meet the requirements listed in §63.8(c) and §63.864(e)(10)(ii) and (iii). This unit shall not have six or more three-hour average parameter values within any six-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)
5. Pursuant to §63.864(f), the owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart MM to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep the previous versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).	Rule 335-3-11-.06 (38)
6. For TRS periodic monitoring, in any three-hour rolling average total weak wash flow to the scrubber and rod deck is less than 90 percent of its respective average value set by the required complying periodic test or a complying test approved by the Department or if fan amp readings indicate the fan is not operating, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours. An appropriate analytical test will be performed daily to assure that a weak wash solution is maintained. If the test indicates a loss of weak wash solution, the cause is to be investigated and appropriate corrective action is to be taken.	Rule 335-3-16-.05

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
7. 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
8. As specified in §63.864(h) and §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)
9. A periodic 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 emissions test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour rolling average liquor firing rates shall be made and maintained on file, available for inspection for at least five years.	Rule 335-3-16-.05
3. In accordance with §63.866(b) and §63.864(k)(1), 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) or EPA letter dated September 24, 2019, during time when spent pulping liquor is fed), and when a violation, per §63.864(k)(2), is noted (when six or more three-hour average flow rates or fan amperage values within any six-month period are below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed).	Rule 335-3-11-.06 (38)
4. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must maintain records of parametric monitoring data required under §63.864, including any period when the three-hour average flow rate or fan amperage, during times when spent pulping liquor 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, and the time corrective action was initiated and completed, and the 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 operating 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 of supporting calculations for compliance determination made under §63.865 (a) through (d). The facility must also maintain records of the monitoring parameter ranges for the scrubber flow rates and fan amperage.	Rule 335-3-11-.06 (38)

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
5. In accordance with §63.866(d), in the event this unit fails to meet and emission limit in §63.862 or a CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: a. For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. b. For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)
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 fan amperage 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)
7. Records of all three-hour rolling average total weak wash flow to the scrubber and rod deck and indication of fan amps shall be made and maintained on file available for inspection for at least five years. In both cases, results of the daily analytical tests to assure that a weak wash solution is maintained shall be recorded and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
8. In accordance with §63.867(b), for any process unit subject to the PM emissions in §63.862(a)(1)(ii), the facility must notify the Administrator before: (i) The air pollution control system for any process unit is modified or replaced; (ii) Any unit is shut down for more than 60 consecutive days; (iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed; or (iv) The black liquor solids firing rate for any kraft recovery furnace during any 24-hour averaging period is increased by more than 10 percent above the level measured during the most recent performance test. Following actions of (i) or (ii), the facility must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in §63.867(b)(2) to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.	Rule 335-3-11-.06 (38)
9. In accordance with §63.867(a), the facility must submit the applicable notifications from Subpart A of this part, as specified in Table 1 of 40 CFR Part 63, Subpart MM.	Rule 335-3-11-.06 (38)

No. 1 Paper Machine
Informational Summary

Description: No. 1 Paper Machine

Emission Unit No: X022

Installation Date: 1967 **Reconstruction/Modification Date:** 1999

Operating Capacity: 2,508 Machine Dried Tons/day

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
X022	No. 1 Paper Machine	VOC	Work Practice Standard. "Clean Water"	Rule 335-3-14-.04 (9)

No. 1 Paper Machine
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology “work practice standard” limit for volatile organic compounds.	Rule 335-3-14-.04 (9)
Emission Standards	
1. Volatile organic compound emissions shall be controlled by the work practice standard of using only mill supply water, non-direct contact condensates, clean condensates, well water, demineralized water, or white water as water sources for the paper machine.	Rule 335-3-14-.04 (9)
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Emission Monitoring	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional requirements other than those listed in the general provisos.	

No. 2 Paper Machine
Informational Summary

Description: No. 2 Paper Machine

Emission Unit No: X023

Installation Date: 1980 **Reconstruction/Modification Date:** 2016

Operating Capacity: 2,671 Machine Dried Tons/day

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
X023	No. 2 Paper Machine	VOC	Work Practice Standard. "Clean Water"	Rule 335-3-14-.04 (9)

No. 2 Paper Machine
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 ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology "work practice standard" limit for volatile organic compounds.	Rule 335-3-14-.04 (9)
Emission Standards	
1. Volatile organic compound emissions shall be controlled by the work practice standard of using only mill supply water, non-direct contact condensates, clean condensates, well water, demineralized water, or white water as water sources for the paper machine.	Rule 335-3-14-.04 (9)
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Emission Monitoring	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional requirements other than those listed in the general provisos.	

Pulping System Processes
Informational Summary

Description: Pulping System Processes

Emission Unit No: N/A

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

Operating Capacity: N/A

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S443	Pulping System Processes, Digester, Multiple Effect Evaporator, Turpentine Recovery and Steam Stripper Systems	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to the No. 1 Power Boiler, No. 2 Power Boiler, or No. 2 Lime Kiln.	Rule 335-3-11-.06 (18)
S443	Pulping System Processes, Digester, Multiple Effect Evaporator, Turpentine Recovery and Steam Stripper Systems	HAPs	The enclosures and closed-vent system shall meet the requirements specified in the "Enclosures and Closed-Vent Systems Emission Standards" Proviso 1(a)-(c).	Rule 335-3-11-.06 (18)
S443	Pulping System Processes HVLC	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to the No. 1 Power Boiler or the No. 2 Power Boiler and shall meet the requirements specified in the "Enclosures and Closed-Vent Systems Emissions Standards" Proviso 1(a) – (c).	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 Digester, Multiple Effect Evaporator, Turpentine Recovery and Condensate Stripper Systems per the requirements of 40 CFR Part 63 Subpart S, Low Volume High Concentration Gases shall be controlled by the No. 1 Power Boiler, No. 2 Power Boiler or No. 2 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 the No. 1 Power Boiler or No. 2 Power Boiler: (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. Brown Stock Washers); (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; and (iv) Each oxygen delignification system	Rule 335-3-11-.06 (18)
3. Periods of excess emissions reported under 40 CFR Part 63.455 shall not be a violation of 40 CFR Part 63.443 (c) and (d) provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed the following levels: a. One percent for control devices used to reduce the total HAP emissions from the LVHC system; and b. Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and c. Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.	Rule 335-3-11-.06 (18)
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 Proviso 1(a) – (c).	Rule 335-3-11-.06 (18)

Pulping System Processes
Provisos

Federally Enforceable Provisos	Regulations
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 with heat input capacity greater than 150 million Btu per hour by introducing the HAP emission stream with the combustion air; or b. Reduce total HAP emissions using a boiler, lime kiln, or recovery furnace by in introducing the HAP emission stream with the primary fuel or into the flame zone.	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 the Emission Monitoring provisos for "Enclosures and Closed-Vent Systems" for details.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. For the HVLC sources, per the requirements of 40 CFR Part 63 Subpart S, 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 Digester, Multiple Effect Evaporator, Turpentine Recovery Condensate Stripper Systems 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: N/A

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

Operating Capacity: N/A

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 LVHC collection system; and (5) Each LVHC collection system.	HAPs	Collect the pulping process condensates from the equipment systems in this section that in total contain a total HAP mass of 3.6 kilograms or more of total HAP per megagram (7.2 pounds per ton) of ODP. Treat the pulping process condensates to reduce or destroy the total HAPs by at least 92 percent or more by weight.	Rule 335-3-11-.06 (18)
S446	Process Condensates	HAPs	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 40 CFR 63.446	Rule 335-3-11-.06 (18)
S446	Process Condensates	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 7.2 pounds of total HAP or more per ton of ODP shall be collected.	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. a. Each closed collection system shall meet the individual drain system requirements specified in 40 CFR Part 63 §§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 40 CFR Part 63 §§63.443(d) and 63.450, instead of in accordance with 40 CFR Part 63 §63.693 as specified in 40 CFR Part 63 §63.962 (a)(3)(ii), (b)(3)(ii)(A), and (b)(3)(ii)(B)(5)(iii); and 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.	Rule 335-3-11-.06 (18)
3. The pulping process condensate from the equipment systems listed in this section shall be treated to remove 92 percent 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 40 CFR Part 63 §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 40 CFR §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 40 CFR Part 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 40 CFR §63.446, the permittee shall meet the requirements of 40 CFR §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. In a July 31, 2002, letter, the EPA approved an alternative monitoring request to monitor the "effective steam" of the steam stripper as an alternative monitoring parameter for the individual parameters specified in 40 CFR Part 63 Section §63.453(g)	Rule 335-3-11-.06 (18)
4. A CMS shall be operated to measure the following parameters for each steam stripper used to comply with the treatment requirements in 40 CFR §63.446(e) (3), (4), or (5). a. The process wastewater feed rate; b. The steam feed rate; c. The process wastewater column feed temperature; and d. The effective steam ratio.	Rule 335-3-11-.06 (18)
5. A CMS shall be operated to measure the appropriate parameters determined according to the procedures specified in §63.453 (n) to comply with the condensate applicability requirements specified in §63.446 (c).	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
6. To establish or reestablish, the value for each operating parameter required to be monitored by this section, each owner or operator shall use the following procedures: a. During the initial performance test required in 40 CFR Part 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 this section; and d. Provide for the Administrator's approval the rational 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.	Rule 335-3-11-.06 (18)
7. See Emissions Monitoring Provisos 2 for "Enclosures and Closed-Vent Systems" for details.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. For the pulping process condensates from the equipment systems of this section per the requirements of 40 CFR §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: N/A

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

Operating Capacity: N/A

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S450	Enclosures and Closed-Vent Systems	HAPs	Each enclosure and closed-vent system shall meet the requirements specified in bullets (a) through (c) of this section. (a) Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified Sec. 63.457(e). Each enclosure or hood opening closed during the initial performance test specified in Sec. 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. (b) Each component of the closed-vent system used to comply with Secs. 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	Rule 335-3-11-.06 (18)

			by volume above background, as measured by the procedures specified in Sec. 63.457(d). (c) Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in Secs. 63.443, 63.444, or 63.445 shall comply with either of the following requirements: (1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or (2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	

Enclosures and Closed-Vent Systems
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 Digesters, Multiple Effect Evaporators, Turpentine Recovery system, HVLC collection system, and LVHC collection system per the requirements of 40 CFR Part 63 Subpart S each enclosure and closed vent system shall meet the requirements specified in Proviso 1(a) through (c) of this section.	Rule 335-3-11-.06 (18)
(a) 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.	
(b) 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).	
(c) Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in 40 CFR §§63.443, 63.444, or 63.445 shall comply with either of the following requirements:	
(1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or	
(2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	

Enclosures and Closed-Vent Systems
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 Part 63 §63.446(d)(2)(i), the owner or operator shall comply with the following: (1) Method 21, of 40 CFR Part 60, appendix A; and (2) 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: (1) An anemometer to demonstrate flow into the enclosure opening; (2) Measure the static pressure across the opening; (3) Smoke tubes to demonstrate flow into the enclosure opening; or (4) 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(1) through (6) of this section. (1) For each enclosure opening, a visual inspection of the closure mechanism specified in 40 CFR §63.450(b) shall be performed at once per calendar month with at least 21 days between inspections to ensure the opening is maintained in the closed position and sealed. (2) Each closed-vent system required by 40 CFR §63.450(a) shall be visually inspected at least once per calendar month with at least 21 days elapsed time 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. (3) 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). (4) Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in §63.457(e). (5) The valve or closure mechanism specified in 40 CFR §63.450(d)(2) shall be inspected at least once each calendar month, with at least 21 days	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
elapsed time between inspections to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line. (6) If an inspection required by Proviso 1(1) through (6) 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 five calendar days after the problem is identified. (ii) The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown.	
2. Each pulping process condensate closed collection system used to comply with 40 CFR §63.446(d) shall comply with the requirements specified in provisos 2(a) through 2(c) of this section. a. Each pulping process condensate closed collection system shall be visually inspected at least once each calendar month, with at least 21 days elapsed time between inspections and shall comply with the inspection and monitoring requirements specified in §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 this part. ii. Owners or operators shall comply with the inspection and monitoring requirements for closed-vent systems and control devices specified in provisos (a) and (k) of 40 CFR §63.453 instead of the requirements specified in 40 CFR §63.964(a)(2) of subpart RR of this part. 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 this part shall be taken.	Rule 335-3-11-.06 (18)
3. Inspection requirements are subject to the April 2, 2002, waiver for inaccessible monitoring points issued by the EPA Region IV.	Rule 335-3-11-.06 (18)

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 Provisos 1(a) and (b) of this section for the monitoring parameters specified in 40 CFR §63.453. (a) 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. (b) 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)
2. The owner or operator must maintain the following records of malfunctions: (a) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (b) Records of actions taken during periods of malfunction to minimize emissions in accordance with 63.453(q), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.	Rule 335-3-11-.06 (18)

RICE MACT UNITS
Informational Summary

Description:	LK1	No. 1 Lime Kiln Auxiliary Drive
	LK2	No. 2 Lime Kiln Auxiliary Drive
	FP1	No. 1 Fire Pump
	FP2	No. 2 Fire Pump

Emission Unit:	**Installation Date:**	**Reconstruction/Modification Date:**
LK1	October 2012	N/A
LK2	April 2015	N/A
FP1	August 2016	N/A
FP2	January 2019	N/A

Operating Capacity:	**HP:**	**Type:**	**Fuel:**
LK1	46 hp	Compression	ULSD
LK2	46 hp	Compression	ULSD
FP1	305 hp	Compression	ULSD
FP2	305 hp	Compression	ULSD

Operating Schedule:	**Calendar Year Limit:**	**Non-Emergency Use:**
LK1	N/A	
LK2	N/A	
FP1	N/A	≤ 100/50 hours/year
FP2	N/A	≤ 100/50 hours/year

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

40 CFR Part 60 Subpart IIII (All units)
40 CFR Part 63 Subpart ZZZZ (All units)

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
LK1, LK2, FP1, FP2	RICE Engines	Opacity	≤ 20% except one six-minute period per hour ≤ 40%	Rule 335-3-4-.01
LK1, LK2	No. 1 Lime Kiln Auxiliary Drive, No. 2 Lime Kiln Auxiliary	HAPs	NMHC+ NOx: 7.5 g/kW-hr (5.59 g/hp-hr) CO: 5.5 g/kW-hr (4.10 g/hp-hr) PM: 0.60 g/kW-hr (0.45 g/hp-hr)	Rule 335-3-10-.02 (87)
FP1, FP2	No. 1 Fire Pump, No. 2 Fire Pump	HAPs	NMHC + NOx: 3.0 g/hp-hr CO: 2.6 g/hp-hr PM: 0.15 g/hp-hr	Rule 335-3-10-.02 (87)
FP1, FP2	RICE Engines	HAPs	Per 40 CFR §63.6640(f)(1) maintenance checks and readiness testing is limited to 100 hours per year and non-emergency use is limited to 50 hours per year, which count towards the 100 hour per	Rule 335-3-10-.02 (87)

			year limit provided for maintenance and testing. There is no time limit on usage in emergency situations.	

Fuel Specifications	
Sulfur content of fuel oil	< 15 ppm
Cetane Index	> 40 or Maximum aromatic content of 35% by volume

RICE MACT Generators
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
3. All sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06 (103), "National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Hazardous Air Pollutant (HAP) Emissions from Stationary Reciprocating Internal Combustion Engines" (40 CFR Part 63 Subpart ZZZZ).	Rule 335-3-11-.06 (1) and (103)
4. All sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02 (87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" (40 CFR Part 60 Subpart IIII).	Rule 335-3-10-.02 (87)
5. Pursuant to §63.6590(c), all sources must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII.	Rule 335-3-11-.06 (103)
Emission Standards	
1. For all units, opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any 60-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01
2. Pursuant to 40 CFR §60.4204(b) and §60.4201(a), the permittee shall not cause or allow the emissions from LK1 and LK2 to exceed the applicable emission standards in 40 CFR §89.112, specifically: a. The sum of the emissions of non-methane hydrocarbons and nitrogen oxides shall not exceed 7.5 grams per kilowatt-hour (5.59 grams per horsepower-hour) b. Carbon monoxide emissions shall not exceed 5.5 grams per kilowatt-hour (4.10 grams per horsepower-hour) c. Particulate Matter emissions shall not exceed 0.6 grams per kilowatt-hour (0.45 grams per horsepower-hour)	Rule 335-3-10-.02 (87)
3. In accordance with 40 CFR Part §60.4205(c), the permittee shall not cause or allow the emissions from the FP1 and FP2 to exceed the applicable emission standards in Table 4, specifically: a. The sum of the emissions of non-methane hydrocarbons and nitrogen oxides (NOx) shall not exceed 4.0 grams per kilowatt-hour (3.0 grams per horsepower-hour). b. The carbon monoxide emission rate shall not exceed 3.5 grams per kilowatt-hour (2.6 grams per horsepower-hour). c. The particulate matter emission rate shall not exceed 0.20 grams per kilowatt-hour (0.15 grams per horsepower-hour).	Rule 335-3-10-.02 (87)

RICE MACT Generators
Provisos

Federally Enforceable Provisos	Regulations
4. For all units, pursuant to 40 CFR §60.4211(c), the facility shall comply with the emission standards of Subpart IIII by purchasing an engine that is certified by the manufacturer to meet the requirements of §60.4204(b) or §60.4205(c).	Rule 335-3-10-.02 (87)
5. Pursuant to 40 CFR §60.4207(b), the permittee shall not burn any diesel fuel in LK1, LK2, FP1, or FP2 CI engines that does not meet the following per-gallon standards of 40 CFR §80.510(b): a. Sulfur content shall not exceed 15 parts per million (ppm); and b. Cetane index shall be a minimum of 40 or the aromatic content shall not exceed 35 volume percent	Rule 335-3-10-.02 (87)
Compliance and Performance Test Methods and Procedures	
1. For the LK1, LK2, FP1, and FP2 CI engines, pursuant to 40 CFR §60.4211(a), the facility shall operate and maintain the stationary CI ICE and control device according to the manufacturer's written instructions or procedures. Only changes to those emission-related settings permitted by the manufacturer are allowed to be made. Also, the Requirements of 40 CFR parts 1039, 1042, and/or 1068 shall be adhered to, as they apply.	Rule 335-3-10-.02 (87)
2. Pursuant to §60.4206, owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.	Rule 335-3-10-.02 (87)
3. Pursuant to 40 CFR 60.4211(f), there is no limit for use of the emergency stationary CI internal combustion engine units in emergency situations. Maintenance checks and readiness testing are limited to 100 hr/year. The unit may operate up to 50 hr/year in non-emergency situations, and these hours of use are counted towards the 100 hr/year time limit.	Rule 335-3-10-.02 (87)
Emission Monitoring	
1. The facility must install a non-resettable hour meter and monitor FP1 and FP2 according to the requirements of §60.4209 (a) and §60.4211 (f).	Rule 335-3-10-.02 (87)
Recordkeeping and Reporting Requirements	
1. The facility shall keep records of the operation of the applicable engines in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposes for a period of at least five years.	Rule 335-3-10-.02 (87)
2. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of five years from the date of generation of each record.	Rule 335-3-10-.02 (87)
3. The facility shall keep records in accordance with §60.4214(b) for the FP1 and FP2.	Rule 335-3-10-.02 (87)

Sources Subject Only to the General Provisos
Informational Summary

Description: N/A

Emission Unit No: N/A

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

Operating Capacity: N/A

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission limitations:

Description	Regulation
Effluent Treatment System	General Provisos
Pulp Storage Tanks	General Provisos
Liquor Storage Tanks	General Provisos
Precoat Filters	General Provisos
Pressure Filters	General Provisos
Tall Oil Plant	General Provisos
Screening and Rechipping Operation Building	General Provisos

Fugitive Dust Plan
Informational Summary

Description: Fugitive Dust Plan

Emission Unit No: N/A

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

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission limitations:

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

Fugitive Dust Plan
Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. These 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 submitted on June 25, 2025 (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 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 years from the date of generation and shall be available upon request.	Rule 335-3-16-.05

FUGITIVE DUST MITIGATION PLAN

INTERNATIONAL PAPER – PRATTVILLE MILL

PRATTVILLE, ALABAMA

JUNE 2025

SUBMITTED BY:

International Paper

SUBMITTED TO:

ADEM
Alabama Department of Environmental Management

International Paper
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4. RECORDKEEPING	2
5. REVISION HISTORY	2

LIST OF APPENDICES

Appendix A - Roadways Map

1. INTRODUCTION

International Paper (IP) owns and operates a Kraft pulp and paper mill in Prattville, Alabama (Prattville Mill or Mill). The Mill is a major source as defined by the Federal operating permit program (40 Code of Federal Regulations [CFR] Part 70) and the Federal New Source Review (NSR) program (40 CFR Part 52). In addition, the Mill is subject to the Alabama Department of Environmental Management (ADEM) Title V Operating Permit (TVOP) regulations and NSR regulations per Alabama Administrative Code (AAC) 335-3-16 and AAC 335-3-14, respectively. According to TVOP No. 201-0001, General Proviso No. 18, the Mill is required to take reasonable precautions to prevent fugitive dust in order to comply with ADEM's rules and regulations [AAC 335-334-.02].

2. FUGITIVE DUST SOURCES

The main sources of fugitive dust emissions at the Mill are the unpaved roadways. The Mill has multiple road segments used to transport material throughout the Mill. The routes are used to transport chemicals, black liquor soap and logs, chips, and other materials into the Mill, transport finished products offsite, and transfer materials to the landfill. A detailed map locating the sources of fugitive dust emissions is in Appendix A.

Another source of fugitive dust emissions at the Mill is material transfer points. These are points in various Mill processes where material such as chips or bark is transferred from one point to another on the Mill site.

3. PROCEDURE

Mill employees will be responsible for reducing fugitive dust emissions where possible through good housekeeping practices. The primary method of mitigation is watering unpaved roadways. Paved roadways are regularly cleaned via street sweepers. Watering unpaved roadways will increase the moisture content of the dust on the surface as well as reduce the amount of dust and particulate matter becoming airborne as vehicles traverse the road. The Mill utilizes an onsite contractor to water unpaved roadways, focusing more on the haul roads. If fugitive dust emissions are not visually observed, such as during times of natural watering from rainfall, then watering does not take place at that time. Once the onsite contractor begins to observe fugitive dust, then watering is initiated. During the summer and/or in

drier months, the frequency of watering the roadways is triggered by inspection or more often, as needed. The Mill also maintains a posted speed limit of 15 miles per hour (mph) on Mill roadways and 5 mph on landfill roadways, which helps keep fugitive dust from becoming airborne.

For material transfer points, the main precaution utilized for fugitive emissions is good housekeeping practices. The Mill uses washdown hoses for cleaning in all areas of the Mill. If material transfer point spillage has occurred, the area is immediately cleaned. The Petroleum Coke and Coal Handling systems have daily checks required by the TVOP No. 201-0001 Emissions Monitoring Provisos 1 and 2.

Once per week, the Environmental Department conducts visual observations for fugitive dust in areas that potentially generate dust. If visible emissions are observed traveling beyond the Mill property, corrective actions are initiated within four hours of observation.

4. RECORDKEEPING

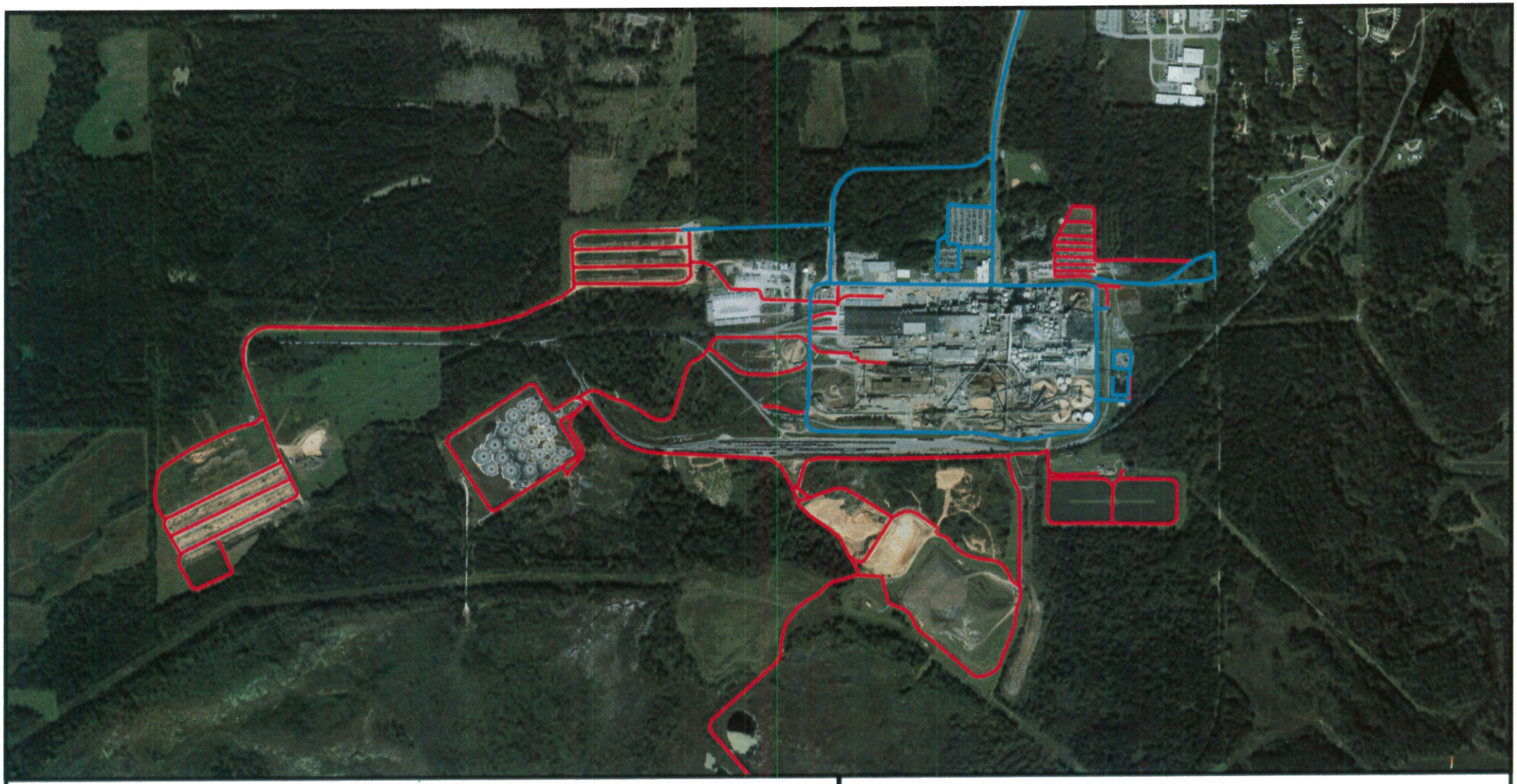
The Mill employs a contractor for watering roadways. The contractor maintains a dedicated watering truck and maintains records/schedule of roadway watering. The Mill has requested the contractor to keep and submit a watering log every month. The provided logs will be maintained in the environmental file room.

5. REVISION HISTORY

This plan was prepared in accordance with the U.S. Environmental Protection Agency (EPA) guidance document titled "Fugitive Dust Control Measures and Best Practices." The plan is maintained by the Environmental Department at the Mill and will be modified as necessary.

Date	Brief Description of Revision	Revised By
06/2025	Original Plan Development	ALL4 LLC

APPENDIX A -
ROADWAYS MAP



Legend

- Paved Roads
- Unpaved Roads

0 500 1,000 1,500 2,000 m

Figure A-1
Facility Road Map

International Paper - Prattville Mill
Prattville, AL

PREPARED BY:	P.R.	CHECKED BY:	A.B.
DATE:	March 2025	PROJECT NO.:	000301-0050.00

ALL4

Topographic Map Courtesy of the United States Geological Survey