



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: WestRock Coated Board, LLC

FACILITY NAME: WestRock Coated Board, LLC – Mahrt Mill

FACILITY/PERMIT NO.: 211-0004

LOCATION: Cottonton, AL

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
<p>1. <u>Transfer</u></p> <p>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.</p>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>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.</p> <p>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.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(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.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>
<p>5. <u>Termination for Cause</u></p> <p>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</p>	Rule 335-3-16-.05(h)

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notification of planned changes or anticipated noncompliance will not stay any permit condition.	
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>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.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>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:</p> <ul style="list-style-type: none"> (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), 	Rule 335-3-16-.07(b)

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<p>practices, or operations regulated or required pursuant to this permit;</p> <p>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</p> <p>11. <u>Compliance Provisions</u></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> <p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted no later than February 28 of each calendar year unless more frequent periods are specified according to the specific rule governing the source or required by the Department.</p> <p>(a) The compliance certification shall include the following:</p> <ol style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">EPA through the Compliance and Emissions Data</p>	<p>Rule 335-3-16-.07(c)</p> <p>Rule 335-3-16-.07(e)</p>

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Federally Enforceable Provisos	Regulations
<p>Reporting Interface (CEDRI) located on EPA's Central Data Exchange (CDX)</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <ul style="list-style-type: none"> (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. 	<p>Rule 335-3-16-.13(5)</p>
<p>14. <u>Additional Rules and Regulations</u></p> <p>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.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <ul style="list-style-type: none"> (a) In the case of shutdown for more than one (1) hour of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to 	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (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. <p>(b) In the event that there is a breakdown of equipment or upset of process for a period exceeding one (1) hour in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>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.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p style="padding-left: 40px;">(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p style="padding-left: 40px;">(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p style="padding-left: 40px;">(3) By paving;</p> <p style="padding-left: 40px;">(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.</p> <p>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.</p>	<p>Rule 335-3-4-.02</p>
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p style="padding-left: 40px;">(1) The date, place, and time of all sampling or measurements;</p> <p style="padding-left: 40px;">(2) The date analyses were performed;</p> <p style="padding-left: 40px;">(3) The company or entity that performed the analyses;</p> <p style="padding-left: 40px;">(4) The analytical techniques or methods used;</p> <p style="padding-left: 40px;">(5) The results of all analyses; and</p>	<p>Rule 335-3-16-.05(c)2</p>

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<p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(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.</p>	
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be annually on February 28th and August 31st. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(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.</p>	<p>Rule 335-3-16-.05(c)3</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>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.</p> <p>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.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

General Permit Provisos

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<p>sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>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.</p> <p>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.</p>	<p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>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.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>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.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing,</p>	<p>40 CFR Part 82</p>

General Permit Provisos

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<p>maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>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.</p>	
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>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:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68.10(a) or,</p> <p>(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.</p>	40 CFR Part 68
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	Rule 335-3-14-.01(1)(d)
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	Rule 335-3-1-.10
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part</p>	Rule 335-3-4-.01(1)

General Permit Provisos

Federally Enforceable Provisos	Regulations
60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	
30. <u>Fuel-Burning Equipment</u>	
(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	Rule 335-3-4-.03
(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.	Rule 335-3-5-.01
31. <u>Process Industries – General</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	Rule 335-3-4-.04
32. <u>Averaging Time for Emission Limits</u>	
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-1-.05
33. Permit Shield	
A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.	Rule 335-3-16-.10

Continuous Washing and Screening System Informational Summary

Description: Continuous Washing and Screening System

Emission Unit No: EU2800CWS

Installation Date: 1966 **Reconstruction/Modification Date:** 1996

Operating Capacity: 129,000 Machine Dried lb/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2800CWS	Continuous Washing and Screening System	TRS	Incineration	Rule 335-3-10-.02 (28)
EU2800 CWS	Continuous Washing and Screening System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Continuous Washing and Screening System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 1 Stage of brown stock washing is 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 for total reduced sulfur.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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. 1 Stage of this source, all gases discharged that contain total reduced sulfur in excess of 5 parts per million 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. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

Continuous Digester System Informational Summary

Description: Continuous Digester System

Emission Unit No: EU2728CONT

Installation Date: 1966 **Reconstruction/Modification Date:** N/A

Operating Capacity: 129,000 Machine Dried lb/hr

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2728CONT	Continuous Digester System (State Only)	TRS	Incineration	Rule 335-3-5-.04 (5)
EU2728CONT	Continuous Digester System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Continuous Digester System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. The source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. 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. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06 (18)

Continuous Digester System 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(5) total reduced sulfur from kraft pulp mill digesters.

Rule 335-3-5-.04 (5)

Emission Standards (State Only)

1. For this source, all gases discharged that contain total reduced sulfur in excess of 5 parts per million 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) and (13)

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. This source is subject to no additional requirements other than those listed in the general provisos.

Recordkeeping and Reporting Requirements (State Only)

1. This source is subject to no additional requirements other than those listed in the general provisos.

Batch Digester System Informational Summary

Description: Batch Digester System

Emission Unit No: EU2728BATH

Installation Date: 1990 **Reconstruction/Modification Date:** 1995

Operating Capacity: 117,000 Machine Dried lb/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2728BATH	Batch Digester System	TRS	Incineration	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2728BATH	Batch Digester System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Batch Digester System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. The 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 source is subject to federal New Source Performance Standards for Subpart BB and ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology Review limit for total reduced sulfur.	Rule 335-3-10-.02 (1) and (28) Rule 335-3-14-.04 (9)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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 this source all gases that contain total reduced sulfur shall be combusted subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

Batch Washing and Screening System Informational Summary

Description: Batch Washing and Screening System

Emission Unit No: EU2800BWS

Installation Date: 1990 **Reconstruction/Modification Date:** 1995

Operating Capacity: 117,000 Machine Dried lb/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2800BWS	Batch Washing and Screening System	TRS	Incineration	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2800BWS	Batch Washing and Screening System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Batch Washing and Screening System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. The 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 source is subject to federal New Source Performance Standards Subpart BB and ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology Review limit for total reduced sulfur.	Rule 335-3-10-.02 (1) and (28) Rule 335-3-14-.04 (9)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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 this source all gases discharged that contain total reduced sulfur in excess of 5 parts per million 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) Rule 335-3-14-.04 (9)
2. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. See "Provisos for Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements.	Rule 335-3-11-.06 (18)

No. 1 Recovery Furnace Informational Summary

Description: No. 1 Recovery Furnace

Emission Unit No: EU2500RF1

Installation Date: 1966

Reconstruction/Modification Date: 1996

Operating Capacity: 125,000 lb/hr BLS

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2500RF1	No. 1 Recovery Furnace	Filterable PM	≤ 0.036 gr/DSCF at 8% O ₂ and/or ≤ 52.2 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace (State Only)	TRS	≤ 5 ppmv at 8% O ₂ as a 12-hr block average	Rule 335-3-5-.04 (4)
EU2500RF1	No. 1 Recovery Furnace	SO ₂	≤ 144 ppmv at 8% O ₂ and/or ≤ 243 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	NO _x	≤ 112 ppmv at 8% O ₂ and/or ≤ 136 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	VOC	≤ 0.048 lbs/MMBtu and/or ≤ 37.2 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	CO	≤ 300 ppmv at 8% O ₂ and/or 222 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	SAM	≤ 12.2 lbs/hr	Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	Opacity	≤ 35% (6-min average) or ≤ 35% for 2% or more of operating time while firing spent pulping liquor in any semiannual period	Rule 335-3-11-.06 (38) Rule 335-3-14-.04 (9)
EU2500RF1	No. 1 Recovery Furnace	HAPs	Filterable PM as a surrogate for HAPs, ≤ 0.036 gr/DSCF at 8% O ₂	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Black Liquor Solids		
No. 2 Fuel Oil	3.0	N/A
Natural Gas		

No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos

Regulations

Applicability

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| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". | Rule 335-3-16-.03 |
| 2. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, opacity, and sulfuric acid mists. | Rule 335-3-14-.04 (9) |
| 3. 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

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| 1. Filterable particulate matter emissions shall not exceed the more stringent of 0.036 grains per SDCF at 8% oxygen and 52.2 pounds per hour. | Rule 335-3-14-.04 (9) |
| 2. Sulfur dioxide emissions shall not exceed the more stringent of 144 parts per million by volume at 8% oxygen and 243 pounds per hour. | Rule 335-3-14-.04 (9) |
| 3. Nitrogen oxide emissions shall not exceed the more stringent of 112 parts per million by volume at 8% oxygen and 136 pounds per hour. | Rule 335-3-14-.04 (9) |
| 4. Volatile organic compounds shall not exceed the more stringent of 0.048 pounds per million Btu and 37.2 pounds per hour. | Rule 335-3-14-.04 (9) |
| 5. Carbon monoxide emissions shall not exceed the more stringent of 300 parts per million by volume at 8% oxygen and 222 pounds per hour. | Rule 335-3-14-.04 (9) |
| 6. Sulfuric acid mists emissions shall not exceed 12.2 pounds per hour. | Rule 335-3-14-.04 (9) |
| 7. Pursuant to 40 CFR Part 63, Subpart MM, as a surrogate for HAPs, the filterable particulate matter emissions from this unit shall not exceed 0.036 gr/sdcf at 8% oxygen. | Rule 335-3-11-.06 (38) |
| 8. Opacity shall not exceed 35 percent (6-min average) and shall not exceed 35 percent for 2 percent or more of the operating time when spent pulping liquor is fed within any semi-annual period. | Rule 335-3-14-.04 (9)
Rule 335-3-11-.06 (38) |

Compliance and Performance Test Methods and Procedures

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| 1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17. | Rule 335-3-11-.06 (38) |
| 2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Method 6 or 6c. | Rule 335-3-10-.03 (1) |
| 3. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e. | Rule 335-3-10-.03 (1) |
| 4. Compliance with the volatile organic compound emission limit shall be determined in accordance with the 40 CFR Part 60 Method 18, 25, 25A or 25B. | Rule 335-3-10-.03 (1) |

No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
5. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13, 13A, or 13B.	Rule 335-3-10-.03 (1)
6. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10.	Rule 335-3-10-.03 (1)
7. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter and opacity periodic monitoring during periods when spent pulping liquor is being fed, if the average of any ten consecutive six-minute opacity averages exceeds 20 percent the cause is to be investigated and appropriate corrective action is to be taken. Corrective action can include completion of transient startup and shutdown conditions as expeditiously as possible.	Rule 335-3-11-.06 (38)
3. For particulate matter, sulfur dioxide, nitrogen oxide, volatile organic compounds, carbon monoxide, and sulfuric acid mists periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. A continuous opacity monitoring system shall be installed, calibrated, operated, and maintained in accordance with provisions in 40 CFR 63.6(h), 63.8, and 63.864(d)(1) through (4).	Rule 335-3-11-.06 (38)
5. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
6. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
7. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
8. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-16-.05
9. A sulfuric acid mist emission test shall be performed at least once every five years.	Rule 335-3-16-.05
10. In accordance with 40 CFR 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 Part 63 Subpart MM.	Rule 335-3-11-.06 (38)
11. In accordance with 40 CFR 63.863(c)(1), periodic particulate matter performance tests shall be performed pursuant to 40 CFR 63.865 every 5 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)

No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
12. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of 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. Records of all three-hour block average liquor-firing rates shall be made and maintained on file available for inspection for at least five years. 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. 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: <ul style="list-style-type: none"> a. The magnitude of emissions 35 percent and greater 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 335-3-11-.06 (38)
5. A sulfur dioxide emission test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
6. A nitrogen oxide emission test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
7. A volatile organic compound emission test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
8. A carbon monoxide emission test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05
9. A sulfuric acid mist emission test report shall be submitted to the Department at least every five years.	Rule 335-3-16-.05

No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>10. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity during times when spent pulping liquor is fed, and when a violation is noted when opacity is greater than 35 percent for 2 percent or more of the operating time within any semi-annual period.</p>	Rule 335-3-11-.06 (38)
<p>11. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the black liquor firing rates in terms of tons/day or Mg/day.</p>	Rule 335-3-11-.06 (38)
<p>12. Pursuant to 40 CFR Part 63, Subpart MM the facility must submit an Excess Emissions Report containing the information required in 40 CFR 63.867(c), as well as the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity, and when the opacity is greater than 35 percent for 2 percent or more of the operating time within any semi-annual period.</p> <p>If a source fails to meet an applicable standard, including any emission limit in 40 CFR 63.862 or any opacity operating limit in §63.864, report such events in the semiannual excess emissions report. Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure, the report must include a list of the affected sources or equipment, and for any failure to meet an emission limit under 40 CFR 63.862, provide 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.</p> <p>Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2).</p> <p>Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.</p>	Rule 335-3-11-.06 (38)
<p>13. The facility shall maintain records demonstrating compliance with the requirements of 40 CFR 63.864(e)(1) to maintain proper operation of an electrostatic precipitator's automatic voltage control (AVC) system.</p>	Rule 335-3-11-.06 (38)

No. 1 Recovery Furnace Provisos

State Only Enforceable Provisos	Regulations
Applicability (State Only)	
1. This source is subject to the requirements of ADEM Admin. Code R. 335-3-5-.04 total reduced sulfur.	Rule 335-3-5-.04
Emission Standards (State Only)	
1. Total reduced sulfur emissions shall not exceed 5 parts per million by volume at 8% oxygen averaged over discrete 12-hour periods.	Rule 335-3-5-.04 (4)
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, 16B, or 16C.	Rule 335-3-10-.03 (1)
Emission Monitoring (State Only)	
1. A continuous emission monitoring system for the measurement of total reduced sulfur and oxygen shall be installed, operated and maintained.	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: <ul style="list-style-type: none"> a. The magnitude of excess emissions 5 parts per million adjusted to 8 percent oxygen and over computed from twelve hour averages (data recorded during periods of total reduced sulfur emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the total reduced sulfur emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. <p>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.</p>	Rule 335-3-05-.04 (9)

No. 1 Smelt Tank Provisos

Description: No. 1 Smelt Tank

Emission Unit No: EU2500SDT1

Installation Date: 1966 **Reconstruction/Modification Date:** N/A

Operating Capacity: 125,000 lbs/hr BLS

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2500SDT1	No. 1 Smelt Tank	Filterable PM	≤ 0.5 lbs/ADTP	Rule 335-3-4-.07 (2)(b)
EU2500SDT1	No. 1 Smelt Tank (State Only)	TRS	≤ 0.033 lb/ton of BLS	Rule 335-3-5-.04 (7)
EU2500SDT1	No. 1 Smelt Tank	Opacity	≤ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01 (1)
EU2500SDT1	No. 1 Smelt Tank	HAPs	Filterable PM as a surrogate for HAPs, ≤ 0.20 lbs/ton of BLS	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. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.07 for particulate matter.	Rule 335-3-4-.07
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. Filterable particulate matter emissions shall not exceed 0.5 pounds per air-dry ton of pulp.	Rule 335-3-4-.07 (2)(b)
2. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
3. In accordance with 40 CFR Part 63 Subpart MM, filterable particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.20 pounds per ton of black liquor solids fired.	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 335-3-11-.06 (38) Rule 335-3-16-.05
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)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-11-.06 (38) Rule 335-3-16-.05
3. For particulate matter periodic monitoring, if any three-hour block average total liquid flow to the scrubber is less than the operational parameter limits set by the required complying periodic test or a complying test approved by the Department or if fan amperage 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. Corrective action can include completion of transient startup and shutdown conditions as expeditiously as possible.	Rule 335-3-11-.06 (38) Rule 335-3-16-.05
4. Pursuant to 40 CFR Part 63, Subpart MM, the facility shall monitor the scrubber total liquid supply flow rate (combined flow to the fan and lower	Rule 335-3-11-.06 (38)

No. 1 Smelt Tank Provisos

Federally Enforceable Provisos

Regulations

zone spray nozzles) and the fan amperage. The parametric monitoring system shall meet the requirements listed in 40 CFR 63.8(c).

Monitoring of the flow rate and fan amperage is an approved alternative to the requirements listed in 40 CFR 63.864(e)(10).

This unit shall not have 6 or more 3-hour average parameter values within any 6-month reporting period that are outside the range of values established in accordance with 40 CFR 63.864(j) and (k).

No more than one exceedance will be attributed in any given 24-hour period.

5. Pursuant to 40 CFR 63.864(j)(4), when confirming or reestablishing operating limits during required periodic performance tests, operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance. 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 40 CFR 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 Part 63 Subpart MM. Rule 335-3-11-.06 (38)

8. Pursuant to 40 CFR 63.865, periodic particulate matter performance tests shall be performed every 5 years. Rule 335-3-11-.06 (38)

Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.

Recordkeeping and Reporting Requirements

1. A particulate matter emission test report shall be submitted to the Department at least once per year. Rule 335-3-16-.05

2. Records of all three-hour block average liquor firing rates shall be made and maintained on file available for inspection for at least five years. 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 (38)

3. Records of all three-hour block average wet scrubber liquid flow rates and hourly fan amperage readings 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 (38)

4. In accordance with 40 CFR 63.866(c), the facility shall maintain the following records in addition to the general records required by 40 CFR 63.10(b)(2): Rule 335-3-11-.06 (38)

- a. Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the three-hour average scrubber liquid flow rate or scrubber fan amperage values were inconsistent with the levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, and the time corrective action was initiated and completed, and corrective action taken;

**No. 1 Smelt Tank
Provisos**

Federally Enforceable Provisos

Regulations

- b. 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 a numeric emissions limit in 40 CFR 63.862 or an operational limit in 40 CFR 63.864. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.
 - c. Maintain records and documentation of supporting calculations for compliance determination made under 40 CFR 63.865(a) through (d);
 - d. Maintain the records of the monitoring parameter ranges for the scrubber liquid flow rates and scrubber fan amperage.
5. 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 40 CFR 63.867(c), including the number and duration of three hour averages when the scrubber liquid flow rate or scrubber 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 40 CFR 63.864(k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted.
- Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2).
- Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.

Rule 335-3-11-.06 (38)

No. 1 Smelt Tank Provisos

State Only Enforceable Provisos

Regulations

Applicability (State Only)

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| 1. This source is subject to the requirements of ADEM Admin. Code R. 335-3-5-.04(7) total reduced sulfur from kraft pulp mill smelt tanks. | Rule 335-3-5-.04 (7) |
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Emission Standards (State Only)

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| 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) |
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Compliance and Performance Test Methods and Procedures (State Only)

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| 1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A, 16B, or 16C. | Rule 335-3-16-.05 |
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Emission Monitoring (State Only)

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| 1. A total reduced sulfur emission test shall be performed at least once per every five years. | Rule 335-3-16-.05 |
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| 2. For total reduced sulfur periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate. | Rule 335-3-16-.05 |
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| 3. For total reduced sulfur periodic monitoring, if any twelve-hour block average scrubber liquid makeup flow rate 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 |
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Recordkeeping and Reporting Requirements

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| 1. A total reduced sulfur emission test report shall be submitted to the Department at least once every 5 years. | Rule 335-3-16-.05 |
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| 2. Records of all twelve-hour block average scrubber liquid makeup flow 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 |
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No. 1 Evaporator System Informational Summary

Description: No. 1 Evaporator System

Emission Unit No: EU2400EVP1

Installation Date: 1966 **Reconstruction/Modification Date:** N/A

Operating Capacity: 125,000 lb/hr BLS

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2400EVP1	No. 1 Evaporator System (State Only)	TRS	Incineration	Rule 335-3-5-.04 (5)
EU2400EVP1	No. 1 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 1 Evaporator System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. 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. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)

No. 1 Evaporator System Provisos

State Only Enforceable Provisos

Regulations

Applicability (State Only)

1. This source is subject to the requirements of ADEM Admin. Code R. 335-3-5-.04(5) total reduced sulfur from kraft pulp mill evaporator systems.

Rule 335-3-5-.04 (5)

Emission Standards (State Only)

1. For this source all gases discharged that contain total reduced sulfur in excess of 5 parts per million 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) and (13)

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. This source is subject to no additional requirements other than those listed in the general provisos.

Recordkeeping and Reporting Requirements (State Only)

1. This source is subject to no additional requirements other than those listed in the general provisos.

No. 2 Recovery Furnace Informational Summary

Description: No. 2 Recovery Furnace

Emission Unit No: EU2500RF2

Installation Date: 1990 **Reconstruction/Modification Date:** N/A

Operating Capacity: 187,500 lb/hr BLS

Operating Schedule: 8760 hours/year

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

- 40 CFR Part 60 Subpart Db**
- 40 CFR Part 60 Subpart BB**
- 40 CFR Part 63 Subpart MM**

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2500RF2	No. 2 Recovery Furnace	Filterable PM	≤ 0.044 gr/DSCF at 8% O ₂ and/or ≤ 106 lbs/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	TRS	≤ 5.0 ppmv at 8% O ₂ (12-hr block avg)	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	SO ₂	≤ 140 ppmv at 8% O ₂ and/or ≤ 394.0 lb/hr	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	SO ₂	When fuel oil is fired, SO ₂ emissions ≤ 0.3 lb/MMBtu (fuel oil heat input)	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	SAM	≤ 20 lb/hr	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	NO _x	≤ 112 ppmv at 8% O ₂ $\leq 10\%$ annual capacity factor	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	VOC	≤ 0.03 lb/MMBtu	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	CO	≤ 879 ppmv at 8% O ₂	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	Opacity	$\leq 35\%$ (6-min average) or $\leq 35\%$ for 2% or more of operating time while firing spent pulping liquor in any semiannual period	Rule 335-3-10-.02 (28) Rule 335-3-11-.06 (38) Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	HAPs	Filterable PM as a surrogate for HAPs, ≤ 0.028 gr/dscf at 8% O ₂	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.30	N/A
Black Liquor Solids		
Natural Gas		

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. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02(1) and (28) New Source Performance Standards Subpart BB for kraft pulp mills.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02(2)(b) New Source Performance Standards Subpart Db for nitrogen oxide emissions and 40 CFR 60 Subpart A, General Provisions when fuel oil or natural gas are fired.	Rule 335-3-10-.02 (1) and (2)(b)
4. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, opacity total reduced sulfur, sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds and sulfuric acid mists	Rule 335-3-14-.04 (9)
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. Filterable particulate matter emissions shall not exceed the more stringent of 0.044 grains per SDCF at 8% oxygen and 106 pounds per hour.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
2. Total reduced sulfur emissions shall not exceed 5.0 parts per million by volume at 8% oxygen as a 12-hour block average.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
3. Sulfur dioxide emissions shall not exceed the more stringent of 140 parts per million by volume at 8% oxygen and 394 pounds per hour.	Rule 335-3-14-.04 (9)
4. When fuel oil is fired sulfur dioxide emissions shall not exceed 0.30 pounds per million Btu (fuel oil heat input).	Rule 335-3-10-.02 (2)(b)
5. The fuel oil content sulfur content shall not exceed 0.30 percent.	Rule 335-3-10-.02 (2)(b)
6. Sulfuric acid mists emissions shall not exceed 20 pounds per hour.	Rule 335-3-14-.04 (9)
7. Nitrogen oxide emissions shall not exceed 112 parts per million by volume at 8% oxygen.	Rule 335-3-14-.04 (9)
8. Pursuant to 40 CFR 60.44b(c) or 60.44b(d), depending on the combination of fossil fuel fired, the fossil fuel annual capacity factor shall be ten (10) percent or less. The annual capacity factor is defined as the ratio between the actual heat input to the boiler from fossil fuel during a calendar year and the potential heat input to the boiler had it been operated 8,760 hours at the maximum steady state design heat input.	Rule 335-3-10-.02 (2)(b)
9. Volatile organic compounds shall not exceed 0.03 pounds per million Btu.	Rule 335-3-14-.04 (9)
10. Carbon monoxide emissions shall not exceed 879 pounds per million by volume at 8% oxygen.	Rule 335-3-14-.04 (9)

No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
11. Pursuant to 40 CFR Part 63, Subpart MM, as a surrogate for HAPs, the filterable particulate matter emissions from this unit shall not exceed 0.028 gr/dscf at 8% oxygen.	Rule 335-3-11-.06 (38)
12. Opacity shall not exceed 35 percent (6-min average) and shall not exceed 35 percent for 2 percent or more of the operating time when spent pulping liquor is fed within any semi-annual period.	Rule 335-3-10-.02 (28) Rule 335-3-11-.06 (38) Rule 335-3-14-.04 (9)
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.	Rule 335-3-10-.02 (28)
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A, 16B, or 16C.	Rule 335-3-10-.02 (28)
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6 or 6C or by fuel oil vendor certification.	Rule 335-3-10-.02 (2)(b) Rule 335-3-10-.03 (1)
4. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13, 13A, or 13B.	Rule 335-3-10-.03 (1)
5. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e.	Rule 335-3-10-.02 (2)(b)
6. Compliance with the annual capacity factor limit shall be determined through recordkeeping.	Rule 335-3-10-.02 (2)(b)
7. Compliance with the volatile organic compound emission limit shall be determined in accordance with the 40 CFR Part 60 Method 18, 25, 25A or 25B.	Rule 335-3-10-.03 (1)
8. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10.	Rule 335-3-10-.03 (1)
9. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9.	Rule 335-3-10-.02 (28)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter and opacity periodic monitoring during periods when spent pulping liquor is being fed, if the average of any ten consecutive six-minute opacity averages exceeds 20 percent the cause is to be investigated and appropriate corrective action is to be taken. Corrective action can include completion of transient startup and shutdown conditions as expeditiously as possible.	Rule 335-3-11-.06 (38)
3. For particulate matter, sulfur dioxide, sulfuric acid mists, nitrogen oxide, volatile organic compounds and carbon monoxide periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. The quantity and the heat input of fossil fuels shall be monitored when fired.	Rule 335-3-10-.02 (2)(b)

No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
5. For sulfur dioxide periodic monitoring obtain receipts from the fuel oil supplier that certify sulfur content in fuel at least once a calendar year.	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
6. A continuous monitoring system to record the concentration of TRS on a dry gas basis and the percent oxygen by volume on a dry gas basis discharged from the recovery furnace shall be installed, calibrated, maintained, and operated.	Rule 335-3-10-.02 (28)
7. A continuous opacity monitoring system shall be installed, calibrated, operated, and maintained in accordance with provisions in 40 CFR 63.6(h), 63.8, and 63.864(d)(1) through (4).	Rule 335-3-11-.06 (38)
8. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
9. A sulfuric acid mists emission test shall be performed at least once every five years.	Rule 335-3-16-.05
10. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
11. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
12. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-16-.05
13. In accordance with 40 CFR 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 Part 63 Subpart MM.	Rule 335-3-11-.06 (38)
14. In accordance with 40 CFR 63.863(c)(1), periodic particulate matter performance tests shall be performed pursuant to 40 CFR 63.865 every 5 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)
15. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of 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. Records of all three-hour block average liquor-firing rates shall be made and maintained on file available for inspection for at least five years. 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. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
4. Records of the fossil fuel quantities fired and actual heat input by fossil fuel shall be maintained on file available for inspection for a period of at least five years.	Rule 335-3-10-.02 (28)
5. Maintain vendor oil specifications on file available for inspection for at least five years	Rule 335-3-10-.02 (2)(b) Rule 335-3-16-.05
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: <ul style="list-style-type: none"> a. The magnitude of emissions in excess of 5 parts per million adjusted to 8 percent oxygen computed as twelve hour block 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 335-3-10-.02 (28)
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: <ul style="list-style-type: none"> a. The magnitude of emissions 35 percent and greater computed on a six-minute averages (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 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 opacity monitor was not inoperative or did not require repairs or adjustments, such information will be stated in the report. 	Rule 335-3-10-.02 (28)
8. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
9. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05

No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
10. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
11. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
12. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
13. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity during times when spent pulping liquor is fed, and when a violation is noted when opacity is greater than 35 percent for 2 percent or more of the operating time within any semi-annual period.	Rule 335-3-11-.06 (38)
14. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the black liquor firing rates in terms of tons/day or Mg/day.	Rule 335-3-11-.06 (38)
15. Pursuant to 40 CFR Part 63, Subpart MM the facility must submit an Excess Emissions Report containing the information required in 40 CFR 63.867(c), as well as the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity, and when the opacity is greater than 35 percent for 2 percent or more of the operating time within any semi-annual period. If a source fails to meet an applicable standard, including any emission limit in 40 CFR 63.862 or any opacity operating limit in 40 CFR 63.864, report such events in the semiannual excess emissions report. Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure, the report must include a list of the affected sources or equipment, and for any failure to meet an emission limit under 40 CFR 63.862, provide 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. Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2). Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	Rule 335-3-11-.06 (38)
16. The facility shall maintain records demonstrating compliance with the requirements of 40 CFR 63.864(e)(1) to maintain proper operation of an electrostatic precipitator's AVC.	Rule 335-3-11-.06 (38)

No. 2 Smelt Tank Informational Summary

Description: No. 2 Smelt Tank

Emission Unit No: EU2500SDT2

Installation Date: 1990

Reconstruction/Modification Date: N/A

Operating Capacity: 187,500 lb/hr BLS

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2500SDT2	No. 2 Smelt Tank	Filterable PM	≤ 0.2 lbs/TBLS (dry weight) and/or ≤ 18.8 lbs/hr	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2500SDT2	No. 2 Smelt Tank	TRS	≤ 0.033 lbs/TBLS	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2500SDT2	No. 2 Smelt Tank	SO ₂	≤ 12 ppmv and/or ≤ 6.3 lbs/hr	Rule 335-3-14-.04 (9)
EU2500SDT2	No. 2 Smelt Tank	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01 (1)
EU2500SDT2	No. 2 Smelt Tank	HAPs	Filterable PM as a surrogate for HAPs, ≤ 0.20 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 applicable requirements of ADEM Admin. Code R. 335-3-10-.02(1) and (28) New Source Performance Standards Subpart BB for kraft pulp mills for particulate matter and total reduced sulfur.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04(9) for Prevention of Significant Deterioration (PSD) / Best Available Control Technology (BACT) for particulate matter, total reduced sulfur and sulfur dioxide.	Rule 335-3-14-.04 (9)
4. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
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. Filterable particulate matter emissions shall not exceed the more stringent of 0.2 pounds per ton of black liquor solids (dry weight) and 18.8 pounds per hour.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
2. 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 (9)
3. Sulfur dioxide emissions shall not exceed the more stringent of 12 ppmv and 6.3 pounds per hour.	Rule 335-3-14-.04 (9)
4. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
5. In accordance with 40 CFR Part 63 Subpart MM, filterable particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.20 pounds per ton of black liquor solids fired.	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 335-3-11-.06 (38)
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A, 16B, 16C.	Rule 335-3-10-.02 (28)
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Method 6 or 6C.	Rule 335-3-10-.03 (1) Rule 335-3-16-.05
4. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01 (2)

No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. A total reduced sulfur emission test shall be performed at least once every five years.	Rule 335-3-16-.05
3. For particulate matter, total reduced sulfur, and sulfur dioxide periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its value set by a required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-11-.06 (38) Rule 335-3-16-.05
4. For particulate matter periodic monitoring, if any three-hour block average total liquid flow to the scrubber is less than the operational parameter limits set by the required complying periodic test or a complying test approved by the Department or if fan amperage 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. Corrective action can include completion of transient startup and shutdown conditions as expediently as possible.	Rule 335-3-11-.06 (38)
5. For total reduced sulfur periodic monitoring, if any twelve-hour block average scrubber liquid makeup flow rate 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
6. Pursuant to 40 CFR Part 63, Subpart MM, the facility shall monitor the scrubber total liquid supply flow rate (combined flow to the fan and lower zone spray nozzles) and the fan amperage. The parametric monitoring system shall meet the requirements listed in 40 CFR 63.8(c). Monitoring of the flow rate and fan amperage is an approved alternative to the requirements listed in 40 CFR 63.864(e)(10). This unit shall not have 6 or more 3-hour average parameter values within any 6-month reporting period that are outside the range of values established in accordance with 40 CFR 63.864 (j) and (k). No more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
7. Pursuant to 40 CFR 63.864(j)(4), when confirming or reestablishing operating limits during required periodic performance tests, operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance.	Rule 335-3-11-.06 (38)
8. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
9. As specified in 40 CFR 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 Part 63 Subpart MM.	Rule 335-3-11-.06 (38)

No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<p>10. Pursuant to 40 CFR 63.865, periodic particulate matter performance tests shall be performed every 5 years.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p> <p>Recordkeeping and Reporting Requirements</p> <p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p> <p>2. A total reduced sulfur emission test report shall be submitted to the Department at least once every five years.</p> <p>3. Records of all three-hour block average liquor firing rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.</p> <p>4. Records of all three-hour block average wet scrubber liquid flow rates and hourly fan amperage readings and all twelve-hour block average scrubber liquid makeup flow 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.</p> <p>5. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.</p> <p>6. In accordance with 40 CFR 63.866(c), the facility shall maintain the following records in addition to the general records required by 40 CFR 63.10(b)(2):</p> <ul style="list-style-type: none"> a. Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the three-hour average scrubber liquid flow rate or scrubber fan amperage values were inconsistent with the levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, and the time corrective action was initiated and completed, and corrective action taken; b. 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 a numeric emissions limit in 40 CFR 63.862 or an operational limit in 40 CFR 63.864. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. c. Maintain records and documentation of supporting calculations for compliance determination made under 40 CFR 63.865(a) through (d); d. Maintain the records of the monitoring parameter ranges for the scrubber liquid flow rates and scrubber fan amperage. <p>7. 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 40 CFR 63.867(c), including the number and duration of three hour averages when the scrubber liquid flow rate or scrubber 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</p>	<p>Rule 335-3-11-.06 (38)</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-11-.06 (38)</p> <p>Rule 335-3-11-.06 (38)</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-11-.06 (38)</p> <p>Rule 335-3-11-.06 (38)</p>

**No. 2 Smelt Tank
Provisos**

Federally Enforceable Provisos

Regulations

control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to 40 CFR 63.864(k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted.

Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2).

Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.

No. 2 Evaporator System Informational Summary

Description: No. 2 Evaporator System

Emission Unit No: EU2400EVP2

Installation Date: 1990 **Reconstruction/Modification Date:** N/A

Operating Capacity: 187,500 lb/hr BLS

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2400EVP2	No. 2 Evaporator System	TRS	Incineration	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2400EVP2	No. 2 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 2 Evaporator System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to the requirements of New Source Performance Standards Subpart BB and ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration Best Available Control Technology limit for total reduced sulfur.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (18)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million 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) Rule 335-3-14-.04 (9)
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. 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. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)

Condensate Stripper System Informational Summary

Description: Condensate Stripper System

Emission Unit No: EU6000CS

Installation Date: 2000 **Reconstruction/Modification Date:** N/A

Operating Capacity: 225,000 lbs/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart BB

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU6000CS	Condensate Stripper System	TRS	Incineration	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU6000CS	Condensate Stripper System	HAPs	Incineration	Rule 335-3-11-.06 (18)

Condensate Stripper System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to the requirements of New Source Performance Standards Subpart BB and ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration Best Available Control Technology limit for total reduced sulfur.	Rule 335-3-10-.02 (1) and (28) Rule 335-3-14-.04 (9)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million 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) Rule 335-3-14-.04 (9)
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. 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. 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: EU2200LK1

Installation Date: 1966

Reconstruction/Modification Date: N/A

Operating Capacity: 20,833 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
EU2200LK1	No. 1 Lime Kiln	Filterable PM	≤ 1.0 lb/ADTP	Rule 335-3-4-.07 (2)(c)
EU2200LK1	No. 1 Lime Kiln (State Only)	TRS	≤ 20 ppmvd at 10% O ₂ (as a 12-hour block average)	Rule 335-3-5-.04 (6)
EU2200LK1	No. 1 Lime Kiln	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01 (1)
EU2200LK1	No. 1 Lime Kiln	HAPs	Filterable PM as a surrogate, ≤ 0.192 gr/sdcf at 10% O ₂	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 - 6 Fuel Oil	N/A	N/A
Natural Gas		
Crude Tall Oil & its derivatives	N/A	N/A

No. 1 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 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. Filterable 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, filterable particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.192 gr/sdcf corrected to 10% oxygen.	Rule 335-3-11-.06 (38)
3. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate emission limit shall be determined in accordance with the 40 CFR 60 Method 5.	Rule 335-3-11-.06 (38)
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR 60 Method 9.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter periodic monitoring, if any three-hour block average lime mud flow rate is greater than 110 percent of its average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-11-.06 (38) Rule 335-3-16-.05
3. Pursuant to 40 CFR Part 63, Subpart MM, for particulate matter periodic monitoring during periods when lime mud is fed to the kiln, if any rolling three-hour block averages for liquid flow to the scrubber or differential pressure across the scrubber are less than the operational parameter limits set by the required complying periodic test or any complying test approved by the Department, the cause is to be investigated and appropriate corrective action is to be taken within twenty four hours. Corrective action can include completion of transient startup and shutdown conditions as expeditiously as possible. The facility is excluded from the requirement to implement corrective action during periods of startup and shutdown when the 3-hour	Rule 335-3-11-.06 (38)

No. 1 Lime Kiln Provisos

Federally Enforceable Provisos

Regulations

<p>average scrubber pressure drop value is below the minimum established operating limit.</p> <p>4. HAP metals reported as particulate matter are in violation of the standard, if six or more three-hour average parameter values within any 6-month reporting period are outside the range of values established during performance tests. For the purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.</p> <p>5. Pursuant to 40 CFR 63.864(j)(4), when confirming or reestablishing operating limits during required periodic performance tests, operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance.</p> <p>6. In accordance with 40 CFR 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.</p> <p>7. Pursuant to 40 CFR 63.865, periodic particulate matter performance tests shall be performed every 5 years.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p>	<p></p> <p>Rule 335-3-11-.06 (38)</p> <p></p> <p>Rule 335-3-11-.06 (38)</p> <p></p> <p>Rule 335-3-11-.06 (38)</p> <p></p> <p>Rule 335-3-11-.06 (38)</p>
<p>Recordkeeping and Reporting Requirements</p>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p> <p>2. Records of all three-hour block average lime mud flow rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.</p> <p>3. Records of all three-hour block average wet scrubber pressure drops across the scrubber inlet and the scrubber stack and liquid flow 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.</p> <p>4. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the CaO production rates in units of Mg/d or ton/d.</p> <p>5. In accordance with 40 CFR Part 63.866(c), the facility shall maintain the following records in addition to the general records required by 40 CFR 63.10(b)(2):</p> <p>a. Maintain records of parametric monitoring data required under 40 CFR 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.</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-11-.06 (38)</p>

**No. 1 Lime Kiln
Provisos**

Federally Enforceable Provisos

Regulations

- b. 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 a numeric emissions limit in 40 CFR 63.862 or an operational limit in 40 CFR 63.864. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.
 - c. The facility must also maintain records and documentation of supporting calculation for compliance determinations made under 40 CFR 63.865(a) through (d).
 - d. The facility must also maintain the records of the monitoring parameter ranges for the scrubber's pressure drop and scrubber flow rates.
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 40 CFR 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 40 CFR 63.864 (k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted.
- Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2).
- Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.

Rule 335-3-11-.06 (38)

No. 1 Lime Kiln Provisos

No. 1 Lime Kiln State Only Enforceable Provisos	Regulations
<p>Applicability</p> <p>1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04(6) for total reduced sulfur from kraft pulp mill lime kilns.</p>	Rule 335-3-5-.04 (6)
<p>Emission Standards</p> <p>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.</p>	Rule 335-3-5-.04 (6)
<p>Compliance and Performance Test Methods and Procedures</p> <p>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, 16B, or 16C.</p>	Rule 335-3-10-.03 (1)
<p>Emission Monitoring</p> <p>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.</p>	Rule 335-3-5-.04 (8)
<p>Recordkeeping and Reporting Requirements</p> <p>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:</p> <ol style="list-style-type: none"> a. The magnitude of excess emissions greater than 20 parts per million adjusted to 10 percent oxygen computed from twelve hour averages (data recorded during periods of total reduced sulfur emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the total reduced sulfur emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the total reduced sulfur emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report. 	Rule 335-3-5-.04 (9)

No. 2 Lime Kiln Informational Summary

Description: No. 2 Lime Kiln

Emission Unit No: EU2200LK2

Installation Date: 1990

Reconstruction/Modification Date: N/A

Operating Capacity: 25,000 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
EU2200LK2	No. 2 Lime Kiln	Filterable PM	≤ 0.035 gr/dscf at 10% O ₂ and/or ≤ 7.9 lbs/hr (when firing natural gas)	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	Filterable PM	≤ 0.064 gr/dscf at 10% O ₂ (when firing fuel oil)	Rule 335-3-11-.06 (38)
EU2200LK2	No. 2 Lime Kiln	TRS	≤ 8 ppmv at 10% O ₂ . (as 12-hr block avg.)	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	SO ₂	≤ 44 ppmv at 10% O ₂ . Fuel oil sulfur content shall not exceed 3%	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01 (1)
EU2200LK2	No. 2 Lime Kiln	NO _x	≤ 336 ppmv at 10% O ₂	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	CO	≤ 52 ppmv at 10% O ₂	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	VOC	≤ 78 ppmv at 10% O ₂	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	SAM	≤ 12.9 ppmv at 10% O ₂ and/or ≤ 4.3 lbs/hr	Rule 335-3-14-.04 (9)
EU2200LK2	No. 2 Lime Kiln	HAPs	Filterable PM as a surrogate, ≤ 0.035 gr/dscf at 10% O ₂	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 - 6 Fuel Oil	3.0	N/A
Natural Gas		
Crude Tall Oil & its derivatives	N/A	N/A

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.	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 (PSD) Best Available Control Technology (BACT) limits for particulate matter total reduced sulfur, sulfur dioxide, nitrogen oxides, carbon monoxide, sulfuric acid mists and volatile organic compounds.	Rule 335-3-14-.04 (9)
4. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
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. Filterable particulate emissions shall not exceed the more stringent of 0.035 gr/sdcf at 10 percent oxygen and 7.9 pounds per hour when firing natural gas.	Rule 335-3-14-.04 (9)
2. Filterable particulate emissions shall not exceed 0.064 gr/sdcf at 10 percent oxygen when firing fuel oil.	Rule 335-3-11-.06 (38)
3. Total reduced sulfur shall not exceed 8 parts per million at 10 percent oxygen as a twelve hour block average.	Rule 335-3-10-.02 (28) Rule 335-3-14-.04 (9)
4. Sulfur dioxide emissions shall not exceed 44 ppmv at 10 percent oxygen.	Rule 335-3-14-.04 (9)
5. Fuel oil sulfur content shall not exceed 3.0 percent.	Rule 335-3-14-.04 (9)
6. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
7. Nitrogen oxide emissions shall not exceed 336 ppmv at 10 percent oxygen.	Rule 335-3-14-.04 (9)
8. Carbon monoxide emissions shall not exceed 52 ppmv at 10 percent oxygen.	Rule 335-3-14-.04 (9)
9. Volatile organic compound emissions shall not exceed 78 ppmv at 10 percent oxygen.	Rule 335-3-14-.04 (9)
10. In accordance with 40 CFR Part 63 Subpart MM, particulate matter emissions, as a surrogate for HAPS, shall not exceed 0.035 gr/dscf corrected to 10% oxygen.	Rule 335-3-11-.06 (38)
11. Sulfuric acid mists emissions shall not exceed 12.9 ppmv at 10 percent oxygen and shall not exceed 4.3 pounds per hour.	Rule 335-3-14-.04 (9)
12. Opacity shall not exceed 20% for 3 percent or more of the operating time when lime mud is fed within any semi-annual period.	Rule 335-3-11-.06 (38)

No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17.	Rule 335-3-10-.02 (28) Rule 335-3-11-.06 (38)
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, 16B, or 16C.	Rule 335-3-10-.02 (28)
4. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e.	Rule 335-3-10-.03 (1)
5. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10.	Rule 335-3-10-.03 (1)
6. Compliance with the volatile organic compound emission limit shall be determined in accordance with the 40 CFR Part 60 Method 18, 25, 25A or 25B.	Rule 335-3-10-.03 (1)
7. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6, 6C, or fuel oil sampling and analysis.	Rule 335-3-10-.03 (1)
8. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13, 13A, or 13B.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. For particulate matter and opacity periodic monitoring during periods when lime mud is fed, if the average of any ten consecutive six-minute opacity average exceeds 20 percent, the cause is to be investigated and appropriate corrective action is to be taken. Corrective action can include completion of transient startup and shutdown conditions as expediently as possible.	Rule 335-3-11-.06 (38)
3. For particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, sulfuric acid mists and volatile organic compound periodic monitoring if any three-hour block average lime mud flow 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 lime mud flow rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. For sulfur dioxide periodic monitoring obtain receipts from the fuel oil supplier that certify sulfur content in fuel at least once a calendar year.	Rule 335-3-16-.05
5. A total reduced sulfur continuous emission monitor shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60.284.	Rule 335-3-10-.02 (28)
6. A continuous opacity monitoring system shall be installed, calibrated, operated, and maintained in accordance with provisions in 40 CFR 63.6(h), 63.8, and 63.864(d)(1) through (4).	Rule 335-3-11-.06 (38)
7. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05

No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
8. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
9. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-16-.05
10. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-16-.05
11. A sulfuric acid mists emission test shall be performed at least once every five years.	Rule 335-3-16-.05
12. In accordance with 40 CFR 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)
13. Pursuant to 40 CFR 63.865, periodic particulate matter performance tests shall be every 5 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)
14. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of 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. Records of all three-hour block average lime mud flow rates shall be made and maintained on file available for inspection for at least five years. 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. 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: <ol style="list-style-type: none"> a. The magnitude of emissions 20 percent and greater 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. 	Rule 335-3-16-.05

No. 2 Lime Kiln Provisos

Federally Enforceable Provisos

Regulations

<p>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.</p>	
<p>5. Maintain vendor oil specifications on file available for inspection for at least five years</p>	<p>Rule 335-3-16-.05</p>
<p>6. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the CaO production rates in units of Mg/d or ton/d.</p>	<p>Rule 335-3-11-.06 (38)</p>
<p>7. In accordance with 40 CFR Part 63 Subpart MM, the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity during times when lime mud is fed, and when a violation is noted when opacity is greater than 20 percent for 3 percent or more of the operating time within any semi-annual period.</p>	<p>Rule 335-3-11-.06 (38)</p>
<p>8. 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:</p>	<p>Rule 335-3-10-.02 (28) Rule 335-3-16-.05</p>
<p>a. The magnitude of excess emissions greater than 8 parts per million adjusted to 10 percent oxygen computed from twelve hour averages (data recorded during periods of total reduced sulfur emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages).</p>	
<p>b. The date and time of commencement and completion of each time period of excess emissions.</p>	
<p>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</p>	
<p>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.</p>	
<p>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.</p>	
<p>9. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.</p>	<p>Rule 335-3-16-.05</p>
<p>10. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.</p>	<p>Rule 335-3-16-.05</p>
<p>11. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.</p>	<p>Rule 335-3-16-.05</p>
<p>12. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.</p>	<p>Rule 335-3-16-.05</p>
<p>13. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.</p>	<p>Rule 335-3-16-.05</p>
<p>14. The facility shall maintain records demonstrating compliance with the requirement of 40 CFR 63.864(e)(1) to maintain proper operation of an electrostatic precipitator's AVC.</p>	<p>Rule 335-3-11-.06 (38)</p>

**No. 2 Lime Kiln
Provisos**

Federally Enforceable Provisos

Regulations

15. 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 40 CFR 63.867(c), including the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity, and when the opacity is greater than 20 percent for 3 percent or more of the operating time when lime mud is fed within any semi-annual 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 40 CFR 63.864 (k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted.

If a source fails to meet an applicable standard, including any emission limit in 40 CFR 63.862 or any opacity operating limit in 40 CFR 63.864, report such events in the semiannual excess emissions report. Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure, the report must include a list of the affected sources or equipment, and for any failure to meet an emission limit under 40 CFR 63.862, provide 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.

Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2).

Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.

Rule 335-3-11-.06 (38)

Non-Condensable Gas Thermal Oxidation System Informational Summary

Description: Non-Condensable Gas Thermal Oxidation System

Emission Unit No: EU6000NCG

Installation Date: 2000 **Reconstruction/Modification Date:** N/A

Operating Capacity: 250,500 lb/hr Machine Dried Pulp

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
EU6000NCG	Non-condensable Gas Thermal Oxidation System	Filterable PM	≤ 3.2 lbs/hr	Rule 335-3-14-.04 (9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	SO ₂	≤ 8.9 lbs/hr	Rule 335-3-14-.04 (9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	NO _x	≤ 34.25 lbs/hr	Rule 335-3-14-.04 (9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	SAM	≤ 1.5 lbs/hr	Rule 335-3-14-.04 (9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	Opacity	≤ 20% as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity ≤ 40%	Rule 335-3-4-.01 (1)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	HAPs	Operate at a minimum temperature of 1600 degrees Fahrenheit and a minimum residence time of 0.75 seconds	Rule 335-3-11-.06 (18)

Permitted Fuels

Fuel
Natural Gas

Non-Condensable Gas Thermal Oxidation System Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, nitrogen oxides and sulfuric acid mists.	Rule 335-3-14-.04 (9)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S.	Rule 335-3-11-.06 (18)
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
Emission Standards	
1. Filterable particulate emissions shall not exceed 3.2 pounds per hour.	Rule 335-3-14-.04 (9)
2. Sulfur dioxide emissions shall not exceed 8.9 pounds per hour.	Rule 335-3-14-.04 (9)
3. Nitrogen oxide emissions shall not exceed 34.25 pounds per hour.	Rule 335-3-14-.04 (9)
4. Sulfuric acid mists emissions shall not exceed 1.5 pounds per hour.	Rule 335-3-14-.04 (9)
5. The Non-Condensable Gas Incinerator shall be designed and operated at a minimum temperature of 1600 degrees Fahrenheit (three-hour rolling average) and a minimum residence time of 0.75 seconds.	Rule 335-3-11-.06 (18)
6. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17.	Rule 335-3-10-.03 (1)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 6 or 6C.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 7, 7A, 7B, 7C, 7D. or 7E.	Rule 335-3-10-.03 (1)
4. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 8, Conditional Test Method 13, 13A, or 13B.	Rule 335-3-10-.03 (1)
5. Compliance with the 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. A particulate matter emission test shall be performed at least once every year.	Rule 335-3-16-.05
2. For particulate matter, sulfur dioxide and sulfuric acid mists periodic monitoring, if any three-hour block average wet scrubber liquid recirculation flow rate is less than 90 percent of its respective average value recorded at	Rule 335-3-11-.06 (18) Rule 335-3-16-.05

Non-Condensable Gas Thermal Oxidation System Provisos

Federally Enforceable Provisos	Regulations
the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	
3. Since a wet scrubber controls this unit, opacity periodic monitoring will be satisfied through particulate matter emission periodic monitoring.	Rule 335-3-16-.05
4. A sulfur dioxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
5. For sulfur dioxide periodic monitoring, if any three-hour block average wet scrubber liquid recirculation pH is less than 90 percent of its respective average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-11-.06 (18) Rule 335-3-16-.05
6. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
7. A sulfuric acid mists emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
8. For hazardous air pollutant periodic monitoring a continuous monitoring system shall be operated to measure the temperature in the Non-Condensable Gas Incinerator firebox or in the ductwork immediately downstream of the firebox and before any substantial heat exchange occurs.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour block average wet scrubber liquid recirculation flow rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (18)
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
4. Records of all three-hour block average wet scrubber liquid recirculation pH 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 (18)
5. A nitrogen oxide emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
6. Records of all three-hour block average exhaust gas duct temperatures 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 (18)
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05

No. 1 Paper Machine and Coaters Informational Summary

Description: No. 1 Paper Machine and Coaters

Emission Unit No: EU3100PMC1

Installation Date: 1966 **Reconstruction/Modification Date:** 1996
2019 (Coaters)

Operating Capacity: 586,000 Machine Dried Tons/Year (annualized average)

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
EU3100PMC1	No. 1 Paper Machine and Coaters	VOC	Work Practice Standard "Clean Water"	Rule 335-3-14-.04 (9)

No. 1 Paper Machine and Coaters Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) "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 or white water as water sources for the paper machine.	Rule 335-3-14-.04 (9)
2. This source is subject to a production limit of 586,000 machine-dry tons per year on a 12-month rolling total.	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. The No. 1 Paper Machine's production rate shall be monitored.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. A record of the No. 1 Paper Machine's production shall be made and maintained in a form suitable for inspection for at least five years	Rule 335-3-16-.05

No. 2 Paper Machine and Coaters Informational Summary

Description: No. 2 Paper Machine and Coaters

Emission Unit No: EU3100PMC2

Installation Date: 1990 **Reconstruction/Modification Date:** 1995

Operating Capacity: 150,000 Machine Dried Pounds Per Hour (1,800 MDTPD)
(annualized average)

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
EU3100PMC2	No. 2 Paper Machine and Coaters	VOC	Work Practice Standard "Clean Water"	Rule 335-3-14-.04 (9)

No. 2 Paper Machine and Coaters Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) "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 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. 1 Wood Residue Boiler Informational Summary

Description: No. 1 Wood Residue Boiler

Emission Unit No: EU0400WRB1

Installation Date: 1966

Reconstruction/Modification Date: 1973

Operating Capacity: 337 MMBtu/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 61 Subpart E

40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0400WRB1	No. 1 Wood Residue Boiler	PM	Shall not exceed: (a) 0.17 gr/dscf, adjusted to 50% excess air for combination gas and wood residue boilers. (b) 0.20 gr/dscf, adjusted to 50% excess air for combination oil and wood residue boilers. (c) 0.20 gr/dscf, adjusted to 50% excess air for boilers using wood residue only.	Rule 335-3-4-.08 (2)
EU0400WRB1	No. 1 Wood Residue Boiler	PM	$E=1.38H^{0.44}$ Where: E = Emissions, lb/MMBtu H = Heat Input, MMBtu/hr	Rule 335-3-4-.03 (1)
EU0400WRB1	No. 1 Wood Residue Boiler	Filterable PM	0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB1	No. 1 Wood Residue Boiler	CO	3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average	Rule 335-3-11-.06 (107)
EU0400WRB1	No. 1 Wood Residue Boiler	Opacity	≤ 20% with one six-minute period up to 40% in any one hour period.	Rule 335-3-4-.01 (1)
EU0400WRB1	No. 1 Wood Residue Boiler	HCl	0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB1	No. 1 Wood Residue Boiler	Mercury	≤ 3200 grams per 24-hour period.	Rule 335-3-11-.02 (4)
EU0400WRB1	No. 1 Wood Residue Boiler	Mercury	5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

No. 1 Wood Residue Boiler
Provisos
Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Wood	N/A	N/A
Biomass		
Natural Gas		
Crude Tall Oil & its derivatives		

No. 1 Wood Residue 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 (1) and R. 335-3-4-.08 (2) for particulate matter.	Rule 335-3-4-.03 (1) Rule 335-3-4-.08 (2)
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.01 (1) for opacity.	Rule 335-3-4-.01 (1)
4. This source is subject to the applicable requirements of 40 CFR Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	Rule 335-3-11-.02 (1) and (4)
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed: <ul style="list-style-type: none"> a. 0.17 grains per dry standard cubic foot, adjusted to fifty percent (50%) excess air for combination gas and wood residue boilers. b. 0.20 grains per dry standard cubic foot, adjusted to 50 percent excess air for combination oil and wood residue boilers. c. 0.20 grains per dry standard cubic foot, adjusted to fifty percent (50%) excess air for boilers using wood residue only. 	Rule 335-3-4-.08 (2)
2. Class 1 Counties: No person shall cause or permit the emission of particulate matter from fuel-burning equipment in a Class 1 County in excess of the amount shown in Table 4-1 for the heat input allocated to such source. For sources in Class I counties, interpolation of the data in Table 4-1 for heat input values between 10 million BTU/hr and 250 million BTU/hr shall be accomplished by the use of the equation: $E=1.38H^{-0.44}$ Where: E = Emissions in lb/million BTU H = Heat Input in millions of BTU/hr	Rule 335-3-4-.03 (1)
3. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44 lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
4. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average.	Rule 335-3-11-.06 (107)
5. Hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
6. The No. 1-3 Wood Residue Boilers shall not collectively burn more than 225 oven-dry tons of de-watered waste water treatment solids including rejected knots per day.	Rule 335-3-16-.05

No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
7. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
8. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02 (4)
9. Mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
10. 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)
11. 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)
12. The standards of 40 CFR 63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
13. Startup and shutdown procedures for this unit shall be followed in accordance with Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107) Rule 335-3-16-.05
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 mercury emission limit shall be determined in accordance with the 40 CFR Part 60 Method 105, 29, 30A, or 30B, or ASTM D6784. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.02 (4) Rule 335-3-11-.06 (107)
4. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
5. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emission 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 30-day rolling average steaming rate is greater than 110 percent of the highest 1-hour average value set by a required	Rule 335-3-11-.06 (107) Rule 335-3-16-.05

No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos

Regulations

<p>periodic test that showed compliance or a test approved by the Department that showed compliance, the steaming rate is to be lowered until compliance is successfully demonstrated at the higher rate. 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.</p>	
<p>3. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average wet scrubber pressure drop or liquid flow rate is less than the respective lowest 1-hour average value set by the required complying periodic test or a complying test approved by the Department, investigate the cause and take corrective action within twenty-four 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.</p>	<p>Rule 335-3-11-.06 (107)</p>
<p>4. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.</p>	<p>Rule 335-3-16-.05</p>
<p>5. In accordance with 40 CFR 63.7525(a), an oxygen analyzer system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained pursuant to 63.7500(a)(2) and Table 4. The 30-day rolling average oxygen level shall be set no lower than the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.</p>	<p>Rule 335-3-11-.06 (107)</p>
<p>6. A particulate matter, hydrogen chloride, mercury, and carbon monoxide performance test shall be performed within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the respective emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for the specific pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.</p>	<p>Rule 335-3-11-.06 (107)</p>
<p>7. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.</p>	<p>Rule 335-3-11-.02 (4)</p>
<p>8. The quantity of oven dry tons of de-watered wastewater treatment solids burned per day shall be monitored.</p>	<p>Rule 335-3-16-.05</p>
<p>9. 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.</p>	<p>Rule 335-3-11-.06 (107)</p>
<p>10. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(10). Each annual tune-up must be conducted no more than 13 months after the previous tune-up.</p>	<p>Rule 335-3-11-.06 (107)</p>
Recordkeeping and Reporting Requirements	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	<p>Rule 335-3-16-.05</p>

No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
2. Records of all 30-day 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 335-3-11-.06 (107)
3. Records of the quantity of oven dry tons of de-watered wastewater treatment solids burned per day must be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05
4. A record of the rolling 30-day average wet scrubber pressure drops and liquid flow rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
5. A record of the rolling 30-day average oxygen content shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
6. 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)
7. Pursuant to 40 CFR 63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to 63.7530 and Table 7.	Rule 335-3-11-.06 (107)
8. Pursuant to 40 CFR 63.7545(d), when conducting a performance test under Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
9. This source shall maintain all applicable records required under 40 CFR 63.7555. Records must be readily available for review according to 63.10(b)(1) for a period of 5 years.	Rule 335-3-11-.06 (107)
10. This source shall submit all applicable reports required under 40 CFR 63.7550 and Table 9.	Rule 335-3-11-.06 (107)

No. 2 Wood Residue Boiler Informational Summary

Description: No. 2 Wood Residue Boiler

Emission Unit No: EU0400WRB2

Installation Date: 1981

Reconstruction/Modification Date: 1988

Operating Capacity: 550 MMBtu/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart Db

40 CFR Part 61 Subpart E

40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0400WRB2	No. 2 Wood Residue Boiler	PM	≤ 0.10 lbs/MMBtu heat input and/or ≤ 55.0 lbs/hr	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04 (9)
EU0400WRB2	No. 2 Wood Residue Boiler	Filterable PM	0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB2	No. 2 Wood Residue Boiler	SO ₂	≤ 0.0096 lbs/MMBtu heat input and/or ≤ 5.3 lbs/hr when wood residue, natural gas or wood residue and natural gas are fired	Rule 335-3-14-.04 (9)
EU0400WRB2	No. 2 Wood Residue Boiler	NO _x	≤ 0.3 lbs/MMBtu heat input 10% the annual capacity factor for natural gas	Rule 335-3-10-.02 (2)(b)
EU0400WRB2	No. 2 Wood Residue Boiler	CO	≤ 0.4 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
EU0400WRB2	No. 2 Wood Residue Boiler	CO	3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average	Rule 335-3-11-.06 (107)
EU0400WRB2	No. 2 Wood Residue Boiler	VOC	≤ 0.03 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
EU0400WRB2	No. 2 Wood Residue Boiler	SAM	≤ 0.0064 lbs/MMBtu heat input and/or ≤ 3.5 lbs/hr when when wood residue, natural gas or wood residue and natural gas are fired	Rule 335-3-14-.04 (9)
EU0400WRB2	No. 2 Wood Residue Boiler	Opacity	≤ 20% except for one six-minute period per hour ≤ 27%	Rule 335-3-10-.02 (2)(b)
EU0400WRB2	No. 2 Wood Residue Boiler	Mercury	≤ 3200 grams per 24-hour period	Rule 335-3-11-.02 (4)
EU0400WRB2	No. 2 Wood Residue Boiler	Mercury	5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB2	No. 2 Wood Residue Boiler	HCl	0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

**No. 2 Wood Residue Boiler
Provisos**

Permitted Fuels

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

No. 2 Wood Residue 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)(b) New Source Performance Standards 40 CFR 60 Subpart Db for particulate matter, nitrogen oxide and opacity.	Rule 335-3-10-.02 (1) and (2)(b)
3. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, carbon monoxide, volatile organic compounds, and sulfuric acid mists.	Rule 335-3-14-.04 (9)
4. This source is subject to the applicable requirements of 40 CFR Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	Rule 335-3-11-.02 (1) and (4)
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed the more stringent of 0.10 pounds per million Btu heat input and 55.0 pounds per hour.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
2. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44 lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
3. The No. 1-3 Wood Residue Boilers shall not collectively burn more than 225 oven-dry tons of de-watered waste water treatment solids including rejected knots per day.	Rule 335-3-16-.05
4. Sulfur dioxide emissions shall not exceed 0.0096 pounds per million Btu heat input and shall not exceed 5.3 pounds per hour when wood residue, natural gas or wood residue and natural gas are fired.	Rule 335-3-14-.04 (9)
5. Nitrogen oxide emissions shall not exceed 0.3 pounds per million Btu heat input.	Rule 335-3-10-.02 (2)(b)
6. Pursuant to 40 CFR 60.44b(c), the annual capacity factor for natural gas shall be 10 percent or less, where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas during a calendar year and the potential heat input to the unit had it been operated 8,760 hours at the maximum steady state design heat input.	Rule 335-3-10-.02 (2)(b)
7. Carbon monoxide emissions shall not exceed 0.4 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)
8. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average.	Rule 335-3-11-.06 (107)
9. Volatile organic compound emissions shall not exceed 0.03 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)

No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos

Regulations

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| 10. Sulfuric acid mists emissions shall not exceed 0.0064 pounds per million Btu heat input and shall not exceed 3.5 pounds per hour when wood residue, natural gas or wood residue and natural gas are fired. | Rule 335-3-14-.04 (9) |
| 11. 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)(b) |
| 12. Mercury emissions shall not exceed 3200 grams per 24-hour period. | Rule 335-3-11-.02 (4) |
| 13. Mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output. | Rule 335-3-11-.06 (107) |
| 14. Hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output. | Rule 335-3-11-.06 (107) |
| 15. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test. | Rule 335-3-11-.06 (107) |
| 16. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. | Rule 335-3-11-.06 (107) |
| 17. The standards of 40 CFR 63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR 63 Subpart DDDDD. | Rule 335-3-11-.06 (107) |
| 18. Startup and shutdown procedures for this unit shall be followed in accordance with Table 3 of 40 CFR Part 63 Subpart DDDDD. | Rule 335-3-11-.06 (107) |

Compliance and Performance Test Methods and Procedures

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| 1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD. | Rule 335-3-10-.02 (2)(b)
Rule 335-3-11-.06 (107) |
| 2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6 or 6C. | Rule 335-3-10-.03 (1) |
| 3. Compliance with the nitrogen oxide limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e. | Rule 335-3-10-.02 (2)(b) |
| 4. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD. | Rule 335-3-10-.03 (1)
Rule 335-3-11-.06 (107) |
| 5. Compliance with the volatile organic compound limit shall be determined in accordance with the 40 CFR Part 60 Method 18, 25, 25A or 25B. | Rule 335-3-10-.03 (1) |
| 6. Compliance with the sulfuric acid mists limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13, 13A, 13B. | Rule 335-3-10-.03 (1) |
| 7. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9. | Rule 335-3-10-.02 (2)(b) |

No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
8. Compliance with the mercury emission limit shall be determined in accordance with the 40 CFR Part 60 Method 105, 29, 30A, or 30B, or ASTM D6784. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.02 (4) Rule 335-3-11-.06 (107)
9. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emission 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, sulfur dioxide, carbon monoxide, volatile organic compounds, sulfuric acid mists and nitrogen oxide periodic monitoring, if any 30-day rolling average steam production rate is greater than 110 percent of the highest 1-hour average value set by the required complying periodic test or a complying test approved by the Department, the steaming rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. The facility shall maintain the 30-day rolling average steaming rate such that it does not exceed 110 percent of the highest hourly average recorded during the performance test. 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. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average total secondary power value is less than the lowest 1-hour 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. Operation below the established minimum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
5. For sulfur dioxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
6. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
7. The natural gas heat inputs in million Btus per calendar year shall be monitored.	Rule 335-3-10-.02 (2)(b)
8. The quantity of oven dry tons of de-watered wastewater treatment solids burned per day shall be monitored.	Rule 335-3-16-.05
9. A carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
10. 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	Rule 335-3-11-.06 (107)

No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos

Regulations

level shall be set no lower than the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	
11. A particulate matter, hydrogen chloride, mercury, and carbon monoxide performance test shall be performed within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the respective emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for the specific pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
12. Since this unit is controlled by a wet ESP, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05
13. A volatile organic compound emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
14. A sulfuric acid mists emission test shall be performed at least once every 5 years, firing wood waste or wood waste and natural gas.	Rule 335-3-16-.05
15. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.	Rule 335-3-11-.02 (4)
16. 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)
17. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(10). Each annual tune-up must be conducted no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all 30-day rolling average steam production rates shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107) Rule 335-3-16-.05
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
4. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
5. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
6. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05

No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
8. Records of the quantity of oven dry tons of de-watered wastewater treatment solids burned per day must be made and remain on file for inspection for a period of five years.	Rule 335-3-16-.05
9. Records of the amount of natural gas fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b)
10. Records of the rolling 30-day average WESP total secondary electric power input 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)
11. 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)
12. A site-specific monitoring plan shall be developed in accordance with 40 CFR 63.7505(d), kept on file, and be readily available for review.	Rule 335-3-11-.06 (107)
13. Pursuant to 40 CFR 63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to 63.7530 and Table 7.	Rule 335-3-11-.06 (107)
14. Pursuant to 40 CFR 63.7545(d), when conducting a performance test under Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
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 5 years.	Rule 335-3-11-.06 (107)
16. This source shall submit all applicable reports required under 40 CFR 63.7550 and Table 9.	Rule 335-3-11-.06 (107)

No. 3 Wood Residue Boiler Informational Summary

Description: No. 3 Wood Residue Boiler

Emission Unit No: EU0400WRB3

Installation Date: 1990

Reconstruction/Modification Date: N/A

Operating Capacity: 915 MMBtu/hr

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart Db

40 CFR Part 61 Subpart E

40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0400WRB3	No. 3 Wood Residue Boiler	PM	≤ 0.10 lbs/MMBtu heat input and/or ≤ 91.5 lbs/hr	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
EU0400WRB3	No. 3 Wood Residue Boiler	Filterable PM	0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB3	No. 3 Wood Residue Boiler	SO ₂	≤ 0.0096 lbs/MMBtu heat input and/or ≤ 8.8 lbs/hr	Rule 335-3-14-.04 (9)
EU0400WRB3	No. 3 Wood Residue Boiler	NO _x	≤ 0.3 lbs/MMBtu heat input. 10 % combined annual capacity factor	Rule 335-3-10-.02 (2)(b)
EU0400WRB3	No. 3 Wood Residue Boiler	CO	≤ 0.4 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
EU0400WRB3	No. 3 Wood Residue Boiler	CO	3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average	Rule 335-3-11-.06 (107)
EU0400WRB3	No. 3 Wood Residue Boiler	VOC	≤ 0.03 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
EU0400WRB3	No. 3 Wood Residue Boiler	SAM	≤ 0.012 lbs/MMBtu and/or ≤ 10.8 lbs/hr	Rule 335-3-14-.04 (9)
EU0400WRB3	No. 3 Wood Residue Boiler	Opacity	≤ 20 percent except for one six-minute period per hour $\leq 27\%$	Rule 335-3-10-.02 (2)(b)
EU0400WRB3	No. 3 Wood Residue Boiler	Mercury	≤ 3200 grams per 24-hour period	Rule 335-3-11-.02 (4)
EU0400WRB3	No. 3 Wood Residue Boiler	Mercury	5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
EU0400WRB3	No. 3 Wood Residue Boiler	HCl	0.020 lb/MMBtu (0.023 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)

No. 3 Wood Residue Boiler

Provisos

Permitted Fuels

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

No. 3 Wood Residue 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)(b) New Source Performance Standards 40 CFR 60 Subpart Db for particulate matter, nitrogen oxide and opacity.	Rule 335-3-10-.02 (1) and (2)(b)
3. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04 (9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, carbon monoxide, volatile organic compounds, sulfuric acid mists and nitrogen oxide.	Rule 335-3-14-.04 (9)
4. This source is subject to the applicable requirements of 40 CFR Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	Rule 335-3-11-.02 (1) and (4)
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed the more stringent of 0.10 pounds per million Btu heat input and 91.5 pounds per hour.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
2. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
3. The No. 1-3 Wood Residue Boilers shall not collectively burn more than 225 oven dry tons of de-watered waste water treatment solids including rejected knots per day.	Rule 335-3-16-.05
4. Sulfur dioxide emissions shall not exceed the more stringent of 0.0096 pounds per million Btu heat input and 8.8 pounds per hour.	Rule 335-3-14-.04 (9)
5. Nitrogen oxide emissions shall not exceed 0.3 pounds per million Btu heat input.	Rule 335-3-10-.02 (2)(b)
6. Pursuant to 40 CFR 60.44b(c), the combined annual capacity factor for natural gas shall be 10 percent or less, where the annual capacity factor is defined as the ratio between the actual heat input to the unit from natural gas during a calendar year and the potential heat input to the unit had it been operated 8,760 hours at the maximum steady state design heat input.	Rule 335-3-10-.02 (2)(b)
7. Carbon monoxide emissions shall not exceed 0.4 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)
8. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average.	Rule 335-3-11-.06 (107)
9. Volatile organic compound emissions shall not exceed 0.03 pounds per million Btu heat input.	Rule 335-3-14-.04 (9)
10. Sulfuric acid mists emissions shall not exceed 0.012 pounds per million Btu heat input and shall not exceed 10.8 pounds per hour.	Rule 335-3-14-.04 (9)

No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
11. 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)(b)
12. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02 (4)
13. Mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
14. Hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
15. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06 (107)
16. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
17. The standards of 40 CFR 63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
18. Startup and shutdown procedures for this unit shall be followed in accordance with Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (107)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6 or 6C.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e.	Rule 335-3-10-.02 (2)(b)
4. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
5. Compliance with the volatile organic compound limit shall be determined in accordance with the 40 CFR Part 60 Method 18, 25, 25A or 25B.	Rule 335-3-10-.03 (1)
6. Compliance with the sulfuric acid mists limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13, 13A, or 13B.	Rule 335-3-10-.03 (1)
7. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-10-.02 (2)(b)

No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
8. Compliance with the mercury emission limit shall be determined in accordance with the 40 CFR Part 60 Method 105, 29, 30A, or 30B, or ASTM D6784. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.02 (4) Rule 335-3-11-.06 (107)
9. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. For compliance with 40 CFR 63 Subpart DDDDD, the facility must follow the procedures of 63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-11-.06 (107)
Emission Monitoring	
1. A particulate matter emission 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, sulfur dioxide, carbon monoxide, volatile organic compounds, sulfuric acid mists and nitrogen oxide periodic monitoring, if any 30-day rolling average steam production rate is greater than 110 percent of the highest 1-hour average value set by the required complying periodic test or a complying test approved by the Department, the steaming rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
3. The facility shall maintain the 30-day rolling average steaming rate such that it does not exceed 110 percent of the highest hourly average recorded during the performance test. 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. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average wet scrubber pressure drop or liquid flow rate is less than the respective lowest 1-hour average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours. Operation below the established minimum operating limits shall constitute a deviation of established operating limits listed in Table 4 of 40 CFR Part 63 Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits.	Rule 335-3-11-.06 (107)
5. For sulfur dioxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
6. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
7. The natural gas heat input in million Btus per calendar year shall be monitored.	Rule 335-3-10-.02 (2)(b)
8. The quantity of oven dry tons of de-watered wastewater treatment solids burned per day shall be monitored.	Rule 335-3-16-.05
9. A carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
10. 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	Rule 335-3-11-.06 (107)

No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
level shall be set no lower than the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	
11. A particulate matter, hydrogen chloride, mercury, and carbon monoxide performance test shall be performed within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the respective emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for the specific pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
12. 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
13. A volatile organic compound emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
14. A sulfuric acid mists emission test shall be performed at least once every 5 years, firing wood waste or wood waste and natural gas.	Rule 335-3-16-.05
15. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.	Rule 335-3-11-.02 (4)
16. 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)
17. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(10). Each annual tune-up must be conducted no more than 13 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all 30-day rolling average steam production rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-11-.06 (107) Rule 335-3-16-.05
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
4. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
5. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
6. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
8. Records of the quantity of oven dry tons of de-watered wastewater treatment solids burned per day must be made and remain on file for inspection for a period of five years.	Rule 335-3-16-.05

No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
9. Records of the amount of natural gas fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b)
10. A record of the rolling 30-day average wet scrubber pressure drops and liquid flow 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 335-3-10-.02 (2)(b) Rule 335-3-11-.06 (107)
11. 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)
12. 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)
13. Pursuant to 40 CFR 63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to 63.7530 and Table 7.	Rule 335-3-11-.06 (107)
14. Pursuant to 40 CFR 63.7545(d), when conducting a performance test under Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)
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 5 years.	Rule 335-3-11-.06 (107)
16. This source shall submit all applicable reports required under 40 CFR 63.7550 and Table 9.	Rule 335-3-11-.06 (107)

No. 1 Power Boiler Informational Summary

Description: No. 1 Power Boiler

Emission Unit No: EU0400POWR

Installation Date: 1965 **Reconstruction/Modification Date:** N/A

Operating Capacity: 428 MMBtu/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 DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0400POWR	No. 1 Power Boiler	PM	≤ 0.12 lbs/MMBtu heat input	Rule 335-3-4-.03 (1)
EU0400POWR	No. 1 Power Boiler	SO ₂	The fuel oil sulfur content ≤ 0.5%	Rule 335-3-14-.04
EU0400POWR	No. 1 Power Boiler	Opacity	≤ 20% with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Fuel Oil (No. 2)	0.5	N/A
Natural Gas		

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 requirements of ADEM Admin. Code R. 335-3-4-.03 (1) for particulate matter from Fuel Burning Equipment.	Rule 335-3-4-.03 (1)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14, a National Ambient Air Quality Standard (NAAQS) limit for sulfur dioxide.	Rule 335-3-14-.04
4. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 (1) Visible Emissions.	Rule 335-3-4-.01 (1)
5. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler.	Rule 335-3-11-.06 (1) and (107)
6. 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 0.12 pounds per million Btu.	Rule 335-3-4-.03 (1)
2. The fuel oil sulfur content shall not exceed 0.5 percent.	Rule 335-3-10-.02 (2)(b)
3. Visible emissions shall not be greater than 20 percent opacity as determined by six minute averages, except during one six minute period in any sixty minute period an opacity not greater than that designated as forty percent may be discharged to the atmosphere.	Rule 335-3-4-.01 (1)
4. This unit shall be classified as a Gas 1 Unit as defined in 40 CFR 63 Subpart DDDDD. In order to maintain this classification this unit is limited to firing liquid fuel for periodic testing of liquid fuel, maintenance, or operator training to a combined total of 48 hours during any calendar year. This limitation may be exceeded only during periods of gas curtailment or gas supply interruptions.	Rule 335-3-11-.06 (107)
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.	Rule 335-3-16-.05
2. Compliance with the sulfur in fuel oil limit shall be determined by fuel oil vendor certification.	Rule 335-3-16-.05
3. Compliance with the Opacity limit shall be determined by 40 CFR Part 60 Appendix A Reference Method 9.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. For sulfur dioxide periodic monitoring, obtain fuel oil vendor certification of sulfur in fuel once per year.	Rule 335-3-16-.05
2. Other than when fuel oil is fired solely for burner testing/clean-out, and is fired for a period of less than 30 minutes, for particulate matter and opacity periodic monitoring, on any day when fuel oil is fired; once per day, (weather permitting) one-minute visible emissions readings of the stack's plume opacity shall be made and recorded (4 readings taken approximately every	Rule 335-3-16-.05

No. 1 Power Boiler Provisos

Federally Enforceable Provisos	Regulations
<p>15 seconds) by a person trained in, but not necessarily certified by, EPA Reference Method 9. If the opacity appears to be above 10 percent, immediate action to identify and correct the cause of the visible emissions is to be taken. After corrective action has been taken, another one-minute observation (weather permitting) shall be taken of the stack's opacity. If the opacity observed does not appear to be in excess of 10%, then no further action is needed. If visible emissions still appear to be in excess of 10%, a 6-minute visible emissions reading shall be conducted (weather permitting) before the end of the day by a person certified in EPA Reference Method 9 to determine if the opacity is 20% or less. If the observed opacity is 20% or less, no further action is needed. If the observed opacity is greater than 20% but no greater than 40% another six-minute visible emission reading shall be conducted by the certified person to determine if the opacity is 20% or less. If no Method 9 reading is conducted despite emissions appearing to be in excess of the limit after corrective action has been taken or the source exceeds the opacity limit, the source shall be considered out of compliance with the permitted opacity limit for that day except if the reading was prevented due to weather conditions. If the required Method 9 reading is not taken due to weather conditions, one shall be taken the next day that weather conditions permit.</p>	
<p>3. Pursuant to 40 CFR 63.7510 (g), the facility must conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540(a)(10). Each annual tune up must be conducted no more than 13 months after the previous tune-up.</p>	Rule 335-3-11-.06 (107)
<p>4. The owners and operators, and, to the extent applicable, the NOx authorized account representative of each NOx Budget source and each NOx 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 NOx Budget Unit operates.</p>	Rule 335-3-8-.71
<p>5. Pursuant to ADEM Admin. Code R. 335-3-8-.72 (1)(d)5., a nitrogen oxide performance test shall be completed at least once every five years to verify historical NOx concentration and flow rate factors used to compute NOx mass emissions.</p>	Rule 335-3-8-.72
<p>Recordkeeping and Reporting Requirements</p>	
<p>1. Records of daily one-minute visible emissions readings shall be made and maintained on file available for inspection for a period of five years.</p>	Rule 335-3-16-.05
<p>2. Fuel receipts from the fuel oil supplier that certifies the sulfur content in the fuel shall be maintained on site available for inspection for at least five years.</p>	Rule 335-3-16-.05
<p>3. Records of when fuel oil is fired in the unit shall be made. It shall be documented if the fuel oil-firing is for burner testing/clean-out and if the firing period is less than 30 minutes. These records shall be kept available for inspections for at least five years.</p>	Rule 335-3-16-.05
<p>4. This source shall maintain the records required under 40 CFR 63.7555(a) concerning initial notifications. Records must be readily available for review according to 63.10(b)(1) for a period of 5 years.</p>	Rule 335-3-11-.06 (107)
<p>5. This source shall submit a five-year compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be postmarked on or submitted no later than January 31.</p>	Rule 335-3-11-.06 (107)

**No. 1 Power Boiler
Provisos**

Federally Enforceable Provisos	Regulations
6. The facility shall maintain all records found in ADEM Admin Code R. 335-3-8-.71 (6)(c) for a period of 5 years following the date the document is created.	Rule 335-3-8-.71
7. The facility must submit a monitoring protocol for review and approval by the Department for each NOx Budget Unit. Whenever the monitoring is changed, the pre-existing monitoring requirements shall be met until a new monitoring protocol is approved by the Department.	Rule 335-3-8-.72
8. For each control period in which one or more NOx Budget Units at a source are subject to the NOx Budget Program, the NOx 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

Gas Turbine and Duct Burner Informational Summary

Description: Gas Turbine and Duct Burner

Emission Unit No: EU0300CCGT

Installation Date: 1998 **Reconstruction/Modification Date:** N/A

Operating Capacity: 25 MWe
358 MMBtu/hr (Gas Turbine)
210 MMBtu/hr (Duct Burner)

Operating Schedule: 8760 hours/year

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

40 CFR Part 60 Subpart Db
40 CFR Part 60 Subpart GG

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0300CCGT	Gas Turbine	PM	From the stationary gas turbine (firing natural gas) ≤ 2.5 lbs/hr and/or ≤ 0.0068 lbs/MMBtu heat input	Rule 335-3-14-.04 (9)
EU0300CCGT	Duct Burner	PM	From the duct burner (firing natural gas) ≤ 0.01 lbs/MMBtu and/or < 2.1 lbs/hr	Rule 335-3-14-.04 (9)
EU0300CCGT	Gas Turbine	NO _x	From the stationary gas turbine (firing natural gas) ≤ 25 ppmv at 15% O ₂ on a dry basis and/or ≤ 33.0 lbs/hr.	Rule 335-3-14-.04 (9)
EU0300CCGT	Duct Burner	NO _x	From the duct burner (firing natural gas) ≤ 0.1 lbs/MMBtu heat input and/or ≤ 20.0 lbs/hr	Rule 335-3-14-.04 (9)
EU0300CCGT	Gas Turbine	CO	From the stationary gas turbine (firing natural gas) ≤ 28 ppmv at 15% O ₂ on a dry basis and/or ≤ 22.0 lbs/hr	Rule 335-3-14-.04 (9)
EU0300CCGT	Duct Burner	CO	From the duct burner (firing natural gas) ≤ 0.08 lbs/MMBtu heat input and/or ≤ 16.1 lbs/hr	Rule 335-3-14-.04 (9)
EU0300CCGT	Gas Turbine and Duct Burner	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

Permitted Fuels

Fuel
Natural Gas

Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, nitrogen oxides, and carbon monoxide.	Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02(2)(b) and Rule 335-3-10-.02(33), New Source Performance Standards Subpart Db and Subpart GG for nitrogen oxides.	Rule 335-3-10-.02 (1) and (2)(b) Rule 335-3-10-.02 (1) and (33)
4. This source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01
5. 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 from the stationary gas turbine (firing natural gas) shall not exceed 2.5 pounds per hour and 0.0068 pounds per million Btu.	Rule 335-3-14-.04 (9)
2. Particulate matter emissions from the duct burner (firing natural gas) shall not exceed the more stringent of 0.01 pounds per million Btu and 2.1 pounds per hour.	Rule 335-3-14-.04 (9)
3. Nitrogen oxide emissions from the stationary gas turbine (firing natural gas) shall not exceed the more stringent of 25 parts per million by volume at 15 percent oxygen on a dry basis (3-hour rolling average) and 33.0 pounds per hour.	Rule 335-3-14-.04 (9)
4. Nitrogen oxide emissions from the duct burner (firing natural gas) shall not exceed the more stringent of 0.1 pounds per million Btu and 20.0 pounds per hour.	Rule 335-3-14-.04 (9)
5. Carbon monoxide emissions from the stationary gas turbine shall not exceed the more stringent of 28 parts per million by volume at 15 percent oxygen on a dry basis and 22.0 pounds per hour.	Rule 335-3-14-.04 (9)
6. Carbon monoxide emissions from the duct burner shall not exceed the more stringent of 0.08 pounds per million Btu and 16.1 pounds per hour.	Rule 335-3-14-.04 (9)
7. The Combined Cycle Combustion Turbine shall be restricted to the firing of natural gas only.	Rule 335-3-14-.04 (9)
8. Visible emissions shall not be greater than 20% opacity, as determined by six (6) minute averages, except during one six (6) minute period in any sixty (60) minute period, an opacity not greater than that designated as forty percent (40%) may be discharged to the atmosphere.	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 or 17.	Rule 335-3-10-.03 (1)

Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the nitrogen oxide limit shall be determined in accordance with the 40 CFR Part 60 Method 20 or 7E or continuous emission monitoring system.	Rule 335-3-10-.03 (1)
3. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10.	Rule 335-3-10-.03 (1)
4. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01 (2)
Emission Monitoring	
1. The duct burners shall not be operated when the gas turbine is not in operation and shall be equipped with an automatic shut-off device to prevent their operation at exhaust gas duct temperatures in excess of 1450 degrees Fahrenheit.	Rule 335-3-16-.05
2. A continuous emission monitoring system for the measurements of nitrogen oxides shall be installed, calibrated, operated and maintained. The continuous emission monitoring systems shall be subject to the quality control and quality assurance requirements of 40 CFR Part 60 Appendix F.	Rule 335-3-16-.05
3. A stationary gas turbine and a duct burner carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
4. For carbon monoxide periodic monitoring, if any three-hour block average stationary gas turbine natural gas 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 stationary gas turbine natural gas or fuel oil firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
5. For carbon monoxide periodic monitoring, if any three-hour block average duct burner natural gas 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 duct burner natural gas firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
6. The owners and operators, and, to the extent applicable, the NOx authorized account representative of each NOx Budget source and each NOx 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 NOx Budget Unit operates.	Rule 335-3-8-.71
7. Pursuant to ADEM Admin. Code R. 335-3-8-.72 (1)(c)1 NOx mass emissions during ozone season will be calculated using data from the continuous emission monitoring system and the total heat input consumed during ozone season.	Rule 335-3-8-.72
Recordkeeping and Reporting Requirements	
1. 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: <ul style="list-style-type: none"> a. The magnitude of excess emissions over the permitted limits from the combustion turbine on a three-hour rolling average computed by the NOx CEMs. NOTE: Data recorded during periods of system breakdowns, 	Rule 335-3-16-.05

Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
<p>repairs and adjustments shall not be included in any of the above data averages.</p> <p>b. The date and time of commencement and completion of each time period of excess emissions.</p> <p>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</p> <p>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.</p> <p>e. Equations used to convert nitrogen oxide emission data as monitored to the required reporting standard (lbs/MMBTU and parts per million by volume corrected to 15 percent oxygen on a dry basis) will be included in the report.</p> <p>f. When no excess emissions have occurred and the NO_x emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.</p>	
2. A stationary gas turbine and a duct burner carbon monoxide emission test report shall be submitted at least once every five years.	Rule 335-3-16-.05
3. Records of all three-hour block average stationary gas turbine and duct burner natural gas firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
4. The facility shall maintain all records found in ADEM Admin Code R. 335-3-8-.71 (6)(c) for a period of 5 years following the date the document is created.	Rule 335-3-8-.71
5. The facility must submit a monitoring protocol for review and approval by the Department for each NO _x Budget Unit. Whenever the monitoring is changed, the pre-existing monitoring requirements shall be met until a new monitoring protocol is approved by the Department.	Rule 335-3-8-.71
6. 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. 1 Slaker Informational Summary

Description: No. 1 Slaker

Emission Unit No: EU2300SLK1

Installation Date: 1966 **Reconstruction/Modification Date:** 1998

Operating Capacity: 25,700 lb/hr CaO

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
EU2300SLK1	No. 1 Slaker	PM	≤ 1.0 lb/hr	Rule 335-3-16-.05
EU2300SLK1	No. 1 Slaker	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

No. 1 Slaker 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
Emission Standards	
1. Particulate emissions shall not exceed 1.0 pound per hour.	Rule 335-3-16-.05
2. Visible emissions shall not be greater than 20 percent opacity as determined by six minute averages, except during one six-minute period in any sixty-minute period an opacity not greater than that designated as forty percent may be discharged to the atmosphere	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 Appendix A Method 5.	Rule 335-3-16-.05
2. Compliance with the 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. 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 Slaker Informational Summary

Description: No. 2 Slaker

Emission Unit No: EU2300SLK2

Installation Date: 1990

Reconstruction/Modification Date: N/A

Operating Capacity: 25,000 lb/hr CaO

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
EU2300SLK2	No. 2 Slaker	PM	≤ 1.0 lb/hr	Rule 335-3-14-.04 (9)
EU2300SLK2	No. 2 Slaker	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01 (1)

No. 2 Slaker Provisos

Federally Enforceable Provisos

Regulations

Applicability

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| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". | Rule 335-3-16-.03 |
| 2. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter. | Rule 335-3-14-.04 (9) |
| 3. This Source is subject to the requirements of ADEM Admin. Code R. 335-3-4-.01 for opacity. | Rule 335-3-4-.01 |

Emission Standards

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| 1. Particulate emissions shall not exceed 1.0 pound per hour. | Rule 335-3-14-.04 (9) |
| 2. Visible emissions shall not be greater than 20 percent opacity as determined by six minute averages, except during one six-minute period in any sixty-minute period an opacity not greater than that designated as forty percent may be discharged to the atmosphere | Rule 335-3-4-.01 (1) |

Compliance and Performance Test Methods and Procedures

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| 1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Appendix A Method 5. | Rule 335-3-16-.05 |
| 2. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9. | Rule 335-3-4-.01 (2) |

Emission Monitoring

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| 1. This source is subject to no additional requirements other than those listed in the general provisos. | |
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Recordkeeping and Reporting Requirements

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| 1. This source is subject to no additional requirements other than those listed in the general provisos. | |
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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 a control device that meets the following requirements: a) Reduce total HAP emissions using a Non-Condensable Gas Incinerator designed and operated at a minimum temperature of 871 °C (1600 °F) and a minimum residence time of 0.75 seconds; or b) Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.	Rule 335-3-11-.06 (18)
S443	Pulping System Processes, 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	The enclosures and closed-vent system 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 ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For 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 Non-Condensable Gas Incinerator or the No. 1 and/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:	Rule 335-3-11-.06 (18)
a. Each knotter or screen system Listed below:	
i. Continuous Washing and Screening System, EU2800CWS knotter system	
ii. Continuous Washing and Screening System, EU2800CWS and Batch Washing and Screening System, EU2800BWS screen systems	
b. Pulp washing systems: Continuous Washing and Screening System, EU2800CWS and Batch Washing and Screening System, EU2800BWS	
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:	Rule 335-3-11-.06 (18)
a. One percent for control devices used to reduce the total HAP emissions from the LVHC system; and	
b. Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and	
c. Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.	
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 bullet. 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)
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:	Rule 335-3-11-.06 (18)
a. Reduce total HAP emissions using a Non-Condensable Gas Incinerator designed and operated at a minimum temperature of 871 °C (1600 °F) and a minimum residence time of 0.75 seconds; or	
b. Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.	

Pulping System Processes Provisos

Federally Enforceable Provisos

Regulations

Compliance and Performance Test Methods and Procedures

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| <ol style="list-style-type: none"> 1. See Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems” for details. | <p>Rule 335-3-11-.06 (18)</p> |
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Emission Monitoring

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| <ol style="list-style-type: none"> 1. For the closed-vent system see the Emission Monitoring provisos for “Enclosures and Closed-Vent Systems”. | <p>Rule 335-3-11-.06 (18)</p> |
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Recordkeeping and Reporting Requirements

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| <ol style="list-style-type: none"> 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. | <p>Rule 335-3-11-.06 (18)</p> |
| <ol style="list-style-type: none"> 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. | <p>Rule 335-3-11-.06 (18)</p> |

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: a. the vapors from each stage where weak liquor is introduced (feed stages); and b. Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages); 4. Each LVHC collection system; and 5. Each HVLC 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 remove 3.3 kilograms or more of total HAP per megagram (6.6 pounds per ton).	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 ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. 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 15-day rolling average 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 Provisos 2(a) and 2(b) of this section.	Rule 335-3-11-.06 (18)
a. Each closed collection system shall meet the individual drain system requirements specified in 40 CFR Part 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 63.443(d) and 63.450, instead of in accordance with 40 CFR Part 63.693 as specified in 40 CFR Part 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 40 CFR 63.450 and routed to a control device that meets the requirements in 40 CFR 63.443(d); and	
ii. Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that the tank contains pulping process condensates or any HAP removed from a pulping process condensate stream except when it is necessary to use the opening for sampling, removal, or for equipment inspection, maintenance, or repair.	
3. Each pulping process condensate from the equipment systems listed in this section shall be treated to remove 3.3 kilograms or more of total HAP per megagram (6.6 pounds per ton) based upon a 15-day rolling average. The facility treats pulping process condensate by recycling to an equipment system specified in 40 CFR 63.443(a) meeting the requirements specified in 40 CFR 63.443(c) and (d), and by treating the condensate in the Condensate Stripper System.	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 63.443(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 CRF Part 63.455 shall not be a violation of Proviso 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 or NCASI Method DI/MEOH-94.03 adjusted as described in 40 CFR Part 63.457 to determine the concentration of methanol in liquid samples.
2. For the closed-vent system see the Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems”.

Rule 335-3-11-.06 (18)

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. 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 steam-to-feed ratio will be monitored as the CMS parameter for the process condensate treatment system. (See EPA Region IV letter granting approval of alternative monitoring.)

Rule 335-3-11-.06 (18)

4. A CMS shall be operated to measure the process wastewater flow rate for the condensate that is recycled to an equipment system specified in 40 CFR 63.443(a).

Rule 335-3-11-.06 (18)

5. 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

Rule 335-3-11-.06 (18)

Process Condensates Provisos

Federally Enforceable Provisos

Regulations

time. Include all data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the applicable emission standard.

Recordkeeping and Reporting Requirements

1. For the pulping process condensates from the equipment systems of this section per the requirements of 40 CFR 63.446 the permittee shall meet the Recordkeeping and Reporting Requirements section of the “Enclosures and Closed-Vent Systems” provisos.
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)

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	<ul style="list-style-type: none"> a. Each enclosure and closed-vent system shall meet the requirements specified in bullets (b) through (d) of this section. b. Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified 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. c. 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 by volume above background, 	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems Provisos

			<p>as measured by the procedures specified in Sec. 63.457(d).</p> <p>d. Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in Secs. 63.443, 63.444, or 63.445 shall comply with either of the following requirements:</p> <ul style="list-style-type: none"> i. 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 ii. 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. 	
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Enclosures and Closed-Vent Systems Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> i. 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 ii. For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal. 	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. <i>Detectable leak procedures.</i> 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 63.446(d)(2)(i), the owner or operator shall comply with the following: <ul style="list-style-type: none"> a. Method 21, of 40 CFR Part 60, appendix A; and 	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems Provisos

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> b. The instrument specified in Method 21 shall be calibrated before use according to the procedures specified in Method 21 on each day that leak checks are performed. The following calibration gases shall be used: <ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> 2. <i>Negative pressure procedures.</i> 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: <ul style="list-style-type: none"> a. An anemometer to demonstrate flow into the enclosure opening; b. Measure the static pressure across the opening; c. Smoke tubes to demonstrate flow into the enclosure opening; or d. Any other industrial ventilation test method demonstrated to the Administrator's satisfaction. 	Rule 335-3-11-.06 (18)
Emission Monitoring	
<ul style="list-style-type: none"> 1. Each enclosure and closed-vent system used to comply with 40 CFR 63.450(a) shall comply with the requirements specified in Proviso 1(a) - (f) of this section. <ul style="list-style-type: none"> a. 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. b. Each closed-vent system required by 40 CFR 63.450(a) shall be visually inspected at least once per calendar month with at least 21 days 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. c. For positive pressure closed-vent systems or portions of closed-vent systems, demonstrate no detectable leaks as specified in 40 CFR 63.450(c) measured initially and annually by the procedures in 40 CFR 63.457(d). d. Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in 40 CFR 63.457(e). e. The valve or closure mechanism specified in 40 CFR 63.450(d)(2) shall be inspected at least once each calendar month, with at least 21 days elapsed time between inspections to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line. f. If an inspection required by Proviso 1(a) - (f) of this section identifies visible defects in ductwork, piping, enclosures or connections to covers required by 40 CFR 63.450, or if an instrument reading of 500 parts per million by volume or greater above background is measured, or if enclosure openings are not maintained at negative pressure, then the following corrective actions shall be taken as soon as practicable. 	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems Provisos

Federally Enforceable Provisos

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- i. A first effort to repair or correct the closed-vent system shall be made as soon as practicable but no later than 5 calendar days after the problem is identified.
 - ii. The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown.
2. Each pulping process condensate closed collection system used to comply with 40 CFR 63.446(d) shall comply with the requirements specified in provisos 2(a) through 2(c) of this section.
- a. Each pulping process condensate closed collection system shall be visually inspected at least once each calendar month, with at least 21 days elapsed time between inspections and shall comply with the inspection and monitoring requirements specified in 40 CFR 63.964 of subpart RR of this part, except:
 - i. Owners or operators shall comply with the recordkeeping requirements of 40 CFR 63.454 instead of the requirements specified in 40 CFR 63.964(a)(1)(vi) and (b)(3) of subpart RR of 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)

Recordkeeping and Reporting Requirements

1. The owner or operator of each affected source subject to the requirements of Subpart S shall comply with the recordkeeping requirements of 40 CFR 63.10 of Subpart A, as shown in Table 1 of Subpart S and the requirements specified in Proviso 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:
 - i. Date of inspection;
 - ii. The equipment type and identification;
 - iii. Results of negative pressure tests for enclosures;

Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems Provisos

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Regulations

- | Federally Enforceable Provisos | Regulations |
|--|-------------|
| <ul style="list-style-type: none">iv. Results of leak detection tests;v. The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection);vi. The date the defect or leak was detected and the date of each attempt to repair the defect or leak;vii. Repair methods applied in each attempt to repair the defect or leak;viii. The reason for the delay if the defect or leak is not repaired within 15 days after discovery;ix. The expected date of successful repair of the defect or leak if the repair is not completed within 15 days;x. The date of successful repair of the defect or leak;xi. The position and duration of opening of bypass line valves and the condition of any valve seals; andxii. The duration of the use of bypass valves on computer controlled valves. <p>b. The owner or operator shall record the CMS parameters specified in 40 CFR 63.453 and meet the requirements specified in Proviso 1(a) 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.</p> | |

RICE Units Informational Summary

Description:

RICE-01	No. 1 Lime Kiln Auxiliary Drive Replacement Engine
RICE-02	No. 2 Lime Kiln Auxiliary Drive Replacement Engine
RICE-03	Lime Mud Tank Agitator Replacement Engine
RICE-04	Main Office Replacement Engine
RICE-05	Radio Tower Generator
RICE-06	Fire Pump at Mill Supply
RICE-07	Starter for Gas Turbine
RICE-08	Onan Generator below TG-2
RICE-09	Onan Generator for Gas Turbine
RICE-10	Spare Reconst Drive Engine

Emission Unit:	Installation Date:
RICE-01	March 12, 2019 (Model Year 2018)
RICE-02	March 12, 2019 (Model Year 2018)
RICE-03	March 12, 2019 (Model Year 2018)
RICE-04	June 10, 2020 (Model Year 2018)
RICE-05	1989 (Model Year 1989)
RICE-06	1994 (Model Year 1994)
RICE-07	1998 (Model Year 1998)
RICE-08	1988 (Model Year 1988)
RICE-09	1997 (Model Year 1997)
RICE-10	March 12, 2019 (Model Year 2018)

Operating Capacity:	HP:	Type:	Fuel:
RICE-01	79.7	Spark	Gasoline
RICE-02	79.7	Spark	Gasoline
RICE-03	79.7	Spark	Gasoline
RICE-04	43.5	Spark	Propane
RICE-05	40	Spark	Propane
RICE-06	300	Compression	Diesel
RICE-07	450	Compression	Diesel
RICE-08	355	Compression	Diesel
RICE-09	170	Compression	Diesel
RICE-10	79.7	Spark	Gasoline

Operating Schedule:	Calendar Year Limit:	Non-Emergency Use:
RICE-01		
RICE-02		
RICE-03		
RICE-04	≤500 hours/year	≤100/50 hours/year
RICE-05	≤500 hours/year	≤100/50 hours/year
RICE-06	≤500 hours/year	≤100/50 hours/year
RICE-07	≤500 hours/year	≤100/50 hours/year
RICE-08	≤500 hours/year	≤100/50 hours/year
RICE-09	≤500 hours/year	≤100/50 hours/year
RICE-10		

RICE Units

Provisos

These units contain equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 60 Subpart JJJJ (RICE-01, RICE-02, RICE-03, RICE-04, RICE-10)
40 CFR Part 63 Subpart ZZZZ (All Units)

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
RICE-01 through RICE-10	No. 1 Lime Kiln Auxiliary Drive Replacement Engine, No. 2 Lime Kiln Auxiliary Drive Replacement Engine, Lime Mud Tank Agitator Replacement Engine, Main Office Replacement Engine, Radio Tower Generator, Fire Pump at Mill Supply, Starter for Gas Turbine, Onan Generator below TG-2, Onan Generator for Gas Turbine, Spare Recast Drive Engine	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	Rule 335-3-4-.01
RICE-01, RICE-02, RICE-03, RICE-10	No. 1 Lime Kiln Auxiliary Drive Replacement Engine, No. 2 Lime Kiln Auxiliary Drive Replacement Engine, Lime Mud Tank Agitator Replacement Engine, Spare Recast Drive Engine	HC + NO _x , and CO	HC + NO _x : 2.7 g/kW-hr CO: 4.4 g/kW-hr	Rule 335-3-10-.02 (88)
RICE-04	Main Office Replacement Engine	HC + NO _x , and CO	HC + NO _x : 13.4 g/kW-hr CO: 519 g/kW-hr	Rule 335-3-10-.02 (88)
RICE-05	Radio Tower Generator	HAPs	<ul style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first; b. Inspect spark plugs every 1,000 hours of operation or within one year and 30 days of the previous change, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or within one year and 30 days of 	Rule 335-3-11-.06 (103)

**RICE Units
Provisos**

			the previous change, whichever comes first, and replace as necessary.	
RICE-06 through RICE-09	Fire Pump at Mill Supply, Starter for Gas Turbine, Onan Generator below TG-2, Onan Generator for Gas Turbine	HAPs	<ul style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or within one year and 30 days of the previous change, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first, and replace as necessary. 	Rule 335-3-11-.06 (103)

RICE Units Provisos

Federally Enforceable Provisos

Regulations

Applicability

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| <ol style="list-style-type: none"> 1. Units RICE-01 – RICE-10 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 (103) |
| <ol style="list-style-type: none"> 2. Pursuant to 40 CFR 63.6590(c), Units RICE-01 – RICE-04 and RICE-10 must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of ADEM Admin. Code R. 335-10-.02(88), “Standards of Performance for Stationary Spark Ignition Internal Combustion Engines” (40 CFR 60 Subpart JJJJ). | Rule 335-3-10-.02 (88) |
| <ol style="list-style-type: none"> 3. These units are subject to applicable requirements of ADEM Admin. Code R. 335-3-4-.01 for the opacity. | Rule 335-3-4-.01 |

Emission Standards

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| <ol style="list-style-type: none"> 1. These units shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average, except during one six (6) minute period in any sixty (60) minute period, these units may discharge into the atmosphere opacity not greater than forty percent (40%). | Rule 335-3-4-.01 |
| <ol style="list-style-type: none"> 2. Pursuant to 40 CFR 63.6602, Unit RICE-05 shall: <ol style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first.; b. Inspect spark plugs every 1,000 hours of operation or within one year and 30 days of the previous change, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first, and replace as necessary. | Rule 335-3-11-.06 (103) |
| <ol style="list-style-type: none"> 3. Pursuant to 40 CFR 63.6602, Units RICE-06 – RICE-09 shall: <ol style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or within one year and 30 days of the previous change, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or within one year and 30 days of the previous change, whichever comes first, and replace as necessary. | Rule 335-3-11-.06 (103) |
| <ol style="list-style-type: none"> 4. In accordance with 40 CFR 63.6604(b), the permittee shall not burn any diesel fuel in units RICE-06 – RICE-09 that does not meet the following per-gallon standards of 40 CFR Part 1090.305: <ol style="list-style-type: none"> a. Sulfur content shall not exceed 15 parts per million (ppm); and b. Cetane index shall be a minimum of 40 <u>or</u> the aromatic content shall not exceed 35 volume percent | Rule 335-3-11-.06 (103) |

RICE Units Provisos

Federally Enforceable Provisos

5. In accordance with 40 CFR Part 60.4233(b), the permittee shall not cause or allow the emissions from RICE-01, RICE-02, RICE-03 and RICE-10 to exceed the applicable Tier 2 emission standards in 40 CFR 1048, specifically:
 - a. The sum of hydrocarbons (HC) and nitrogen oxides (NO_x) emission rate shall not exceed 2.7 g/kW-hr;
 - b. The CO emission rate shall not exceed 4.4 g/kW-hr.
6. Pursuant to 40 CFR 60.4231(d), the permittee shall not cause or allow the emissions from RICE-04 to exceed the applicable emission standards in Table 1 of this Subpart, specifically:
 - a. The sum of the emissions of HC and NO_x shall not exceed 10 g/hp-hr (13.4 g/kW-hr);
 - b. The CO emission rate shall not exceed 387 g/hp-hr (519 g/kW-hr).

Compliance and Performance Test Methods and Procedures

1. For these units, Method 9 as defined in 40 CFR 60, Appendix A, shall be used in the determination of the opacity of the stack emissions.
2. In accordance with 40 CFR 63.6640(f), Units RICE-05 – RICE-09 shall adhere to these requirements:
 - a. There is no time limit on the use of emergency stationary RICE in emergency situations.
 - b. You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
 - c. You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity

Regulations

Rule 335-3-10-.02 (88)

Rule 335-3-10-.02 (88)

Rule 335-3-4-.01 (2)

Rule 335-3-11-.06 (103)

RICE Units Provisos

Federally Enforceable Provisos

Regulations

Recordkeeping and Reporting Requirements

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| <p>1. To demonstrate compliance with the operational limitations, the permittee shall maintain records of the date, time, duration, and purpose of operation each time these units are operated. These records shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.</p> | <p>Rule 335-3-10-.02 (88)
Rule 335-3-11-.06 (103)</p> |
| <p>2. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.</p> | <p>Rule 335-3-11-.06 (103)</p> |
| <p>3. The facility shall maintain and show records of manufacturer's certification for Units RICE-01, RICE-02, RICE-03, RICE-04 and RICE-10 in accordance with 40 CFR 60.4231(b) and (c).</p> | <p>Rule 335-3-10-.02 (88)</p> |
| <p>4. For Units RICE-01, RICE-02, RICE-03, RICE-04, and RICE-10, the facility shall keep records in accordance with 40 CFR 60.4245(a)(1)-(3), specifically;</p> <ol style="list-style-type: none"> a. All notifications submitted to comply with this subpart and all documentation supporting any notification; b. All maintenance conducted on the engine; c. Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required by 40 CFR 90 and 1048, as applicable. | <p>Rule 335-3-10-.02 (88)</p> |

Sources Subject Only to the General Provisos Informational Summary

Description:

Emission Unit No:

Installation Date:

Reconstruction/Modification Date:

Operating Capacity:

Operating Schedule: 8760 hours/year

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

Pollutants Emitted

Emission limitations:

Description	Regulation
No. 1 Lime Storage System	General Provisos
No. 2 Lime Storage System	General Provisos
Common Paper Production Equipment	General Provisos
No. 1 Recycling System	General Provisos
No. 2 Recycling System	General Provisos
Cooling Towers	General Provisos
VOL Storage tanks less than 10,567 gallons	General Provisos
VOL Storage tanks 10,567 to 19,890 gallons	General Provisos
VOL Storage tanks greater than 19,890 gallons	General Provisos
Woodyard Material Handling Operations	General Provisos
Tall Oil System	General Provisos
Wastewater Treatment	General Provisos
No. 1 Salt Cake Mix Tank	General Provisos
No. 2 Salt Cake Mix Tank	General Provisos
No. 1 Mud Filter	General Provisos
No. 1 Mud Filter Vacuum Pump	General Provisos
No. 2 Mud Filter	General Provisos
No. 2 Mud Filter Vacuum Pump	General Provisos
Lime Mud Pressure Filter	General Provisos
High Density Storage Tanks	General Provisos
Turpentine Tanks	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 sources are subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".

Rule 335-3-16-.03

Emission Standards (State Only)

1. The facility shall take reasonable precautions as directed in Proviso 1 of "Compliance and Performance Test Methods and Procedures" below to prevent fugitive dust at the facility which travel beyond the facility property line and cause a nuisance.

Rule 335-3-4-.02

Compliance and Performance Test Methods and Procedures (State Only)

1. The facility shall utilize the Facility Dust Plan submitted on June 23, 2025 (Appendix A), in order to minimize and address fugitive dust emissions.

Rule 335-3-16-.07

Emission Monitoring (State Only)

1. The facility shall conduct weekly visual observations for fugitive dust in areas listed with potential to generate fugitive dust, considering factors such as naturally wet conditions. If visible emissions traveling beyond the facility property line are observed, any necessary corrective actions shall be initiated within 4 hours of observation.

Rule 335-3-16-.05

Recordkeeping and Reporting Requirements (State Only)

1. The facility shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of Proviso 1 of "Emission Monitoring" of this Permit. This shall include problems observed and corrective actions taken. The records shall be retained for at least five years from the date of generation and shall be available upon request.

Rule 335-3-16-.05

Fugitive Dust Management Plan

Introduction

WestRock Coated Board, LLC operates an unbleached Kraft pulp and paperboard mill in Cottonton, Russell County, Alabama (Mahrt Mill), which is a major air emissions source under the Title V Major Source Operating Permit program and the Prevention of Significant Deterioration (PSD) permitting program. The Mahrt Mill operates under Title V Major Source Operating Permit No. 211-0004 issued by the Alabama Department of Environmental Management (ADEM). This plan has been developed at the request of ADEM to satisfy the objectives outlined below.

Plan Objectives

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

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

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

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

Identified Dust Sources	Primary Controls	Practices
Paved Roads	<ul style="list-style-type: none"> • Speed limit (paved roads) of 10 mph. • Dust suppression via watering or sweeping. 	Regular operation of water truck and/or sweeper truck by contractor.
Unpaved Roads	<ul style="list-style-type: none"> • Speed limit (unpaved roads) of 10 mph. • Dust suppression via watering. 	Regular operation of water truck by contractor.
Inbound/Outbound Truck Traffic	<ul style="list-style-type: none"> • All inbound/outbound truck traffic is conducted on paved roadways (see above for control measures). 	Regular operation of water truck and/or sweeper truck by contractor.
Mobile Equipment/ Material Handling	<ul style="list-style-type: none"> • Primary clarifier sludge is loaded directly into dump trucks for transfer to fuel pile, landfill, and/or beneficial use customers. • Boiler fly ash is loaded directly into dump trucks or transfer to ash management areas and/or beneficial use customers. • Paper recycling residuals are loaded directly into dump trucks for transfer to fuel pile, landfill, and/or beneficial use customers. 	Regular operation of water truck by contractor.
Storage Piles	<ul style="list-style-type: none"> • Bark pile is generally greater than 40% moisture • Chip piles are comprised of green wood (typically greater than 40% moisture) 	Use of water as dust suppressant on access roads, as necessary.