



# 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:** December 31, 2025

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Alabama Department of Environmental Management

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## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>1. <u>Transfer</u></b></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><b>2. <u>Renewals</u></b></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><b>3. <u>Severability Clause</u></b></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><b>4. <u>Compliance</u></b></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>	Rule 335-3-16-.05(f)  Rule 335-3-16-.05(g)
<p><b>5. <u>Termination for Cause</u></b></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)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
notification of planned changes or anticipated noncompliance will not stay any permit condition.	
<p><b>6. <u>Property Rights</u></b></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><b>7. <u>Submission of Information</u></b></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><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></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><b>9. <u>Certification of Truth, Accuracy, and Completeness:</u></b></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><b>10. <u>Inspection and Entry</u></b></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"> <li>(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;</li> <li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li> <li>(c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment),</li> </ul>	Rule 335-3-16-.07(b)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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><b>11. <u>Compliance Provisions</u></b></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><b>12. <u>Compliance Certification</u></b></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"> <li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li> <li>(2) The compliance status;</li> <li>(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);</li> <li>(4) Whether compliance has been continuous or intermittent;</li> <li>(5) Such other facts as the Department may require to determine the compliance status of the source;</li> </ol> <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;">Enforcement and Compliance Assurance Division</p>	<p>Rule 335-3-16-.07(c)</p> <p>Rule 335-3-16-.07(e)</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>EPA Region 4 Atlanta Federal Center</p> <p>61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p><b>13. <u>Reopening for Cause</u></b></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"> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</li> </ul>	<p>Rule 335-3-16-.13(5)</p>
<p><b>14. <u>Additional Rules and Regulations</u></b></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><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <ul style="list-style-type: none"> <li>(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</li> </ul>	<p>Rule 335-3-1-.07(1), (2)</p>



## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>18. <u>Fugitive Dust</u></b></p> <p>Reasonable precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.</p>	Rule 335-3-4-.02
<p><b>19. <u>Additions and Revisions</u></b></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>	Rule 335-3-16-.13 and .14
<p><b>20. <u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> <li>(1) The date, place, and time of all sampling or measurements;</li> <li>(2) The date analyses were performed;</li> <li>(3) The company or entity that performed the analyses;</li> <li>(4) The analytical techniques or methods used;</li> <li>(5) The results of all analyses; and</li> <li>(6) The operating conditions that existed at the time of sampling or measurement.</li> </ul> <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>	Rule 335-3-16-.05(c)2
<p><b>21. <u>Reporting Requirements</u></b></p> <p>(a) Reports to the Department of any required monitoring shall be annually on February 28<sup>th</sup> and August 31<sup>st</sup>. 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</p>	Rule 335-3-16-.05(c)3



## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>specifically approved by the Air Division or an alternative time is specified by an applicable regulation.</p>	
<p><b>23. <u>Payment of Emission Fees</u></b></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><b>24. <u>Other Reporting and Testing Requirements</u></b></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><b>25. <u>Title VI Requirements (Refrigerants)</u></b></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, 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>40 CFR Part 82</p>
<p><b>26. <u>Chemical Accidental Prevention Provisions</u></b></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>40 CFR Part 68</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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> <p><b>27. <u>Display of Permit</u></b></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> <p><b>28. <u>Circumvention</u></b></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> <p><b>29. <u>Visible Emissions</u></b></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 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p> <p><b>30. <u>Fuel-Burning Equipment</u></b></p> <p>(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.</p> <p>(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.</p> <p><b>31. <u>Process Industries – General</u></b></p> <p>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.</p>	<p>Rule 335-3-14-.01(1)(d)</p> <p>Rule 335-3-1-.10</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p> <p>Rule 335-3-4-.04</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>32. <u>Averaging Time for Emission Limits</u></b></p> <p>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.</p>	<p>Rule 335-3-1-.05</p>
<p><b>33. Permit Shield</b></p> <p>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.</p>	<p>Rule 335-3-16-.10</p>

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

### Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2800CWS	Continuous Washing and Screening System	TRS	Incineration	Rule 335-3-10-.02
EU2800 CWS	Continuous Washing and Screening System	HAPs	Incineration	Rule 335-3-11-.06 (1) and (18)

## Continuous Washing and Screening System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The No. 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.	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)
<b>Emission Standards</b>	
1. For the No. 1 Stage of this source, all gases discharged that contain total reduced sulfur and/or volatile organic compounds 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-.01
<b>Compliance and Performance Test Methods and Procedures</b>	
1. 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)
<b>Emission Monitoring</b>	
1. 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)
<b>Recordkeeping and Reporting Requirements</b>	
1. 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)

## 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(1) and (18)

## Continuous Digester System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. The 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)
<b>Emission Standards</b>	
1. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Emission Monitoring</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Recordkeeping and Reporting Requirements</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)

**Continuous Digester System  
Provisos**

<b>Continuous Digester System (State Only Enforceable Provisos)</b>	<b>Regulations</b>
<b>Applicability (State Only)</b>	
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)
<b>Emission Standards (State Only)</b>	
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)
<b>Compliance and Performance Test Methods and Procedures (State Only)</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Emission Monitoring (State Only)</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Recordkeeping and Reporting Requirements (State Only)</b>	
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) and Rule 335-3-14
EU2728BATH	Batch Digester System	HAPS	Incineration	Rule 335-3-11-.06(1) and (18)

## Batch Digester System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. The source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The source is subject to federal New Source Performance Standards for Subpart BB and a prevention of significant deterioration best available control technology review.	Rule 335-3-10-.02(28) Rule 335-3-14
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)
<b>Emission Standards</b>	
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)
2. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. 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)
<b>Emission Monitoring</b>	
1. 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)
<b>Recordkeeping and Reporting Requirements</b>	
1. 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)

## 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)
EU2800BWS	Batch Washing and Screening System	HAPS	Incineration	Rule 335-3-11-.06(1) and (18)

## Batch Washing and Screening System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. The source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The source is subject to federal New Source Performance Standards Subpart BB and a prevention of significant deterioration best available control technology review.	Rule 335-3-10-.02(28) Rule 335-3-14-.04
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)
<b>Emission Standards</b>	
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)
2. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. 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)
<b>Emission Monitoring</b>	
1. 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)
<b>Recordkeeping and Reporting Requirements</b>	
1. 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)

## 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 63 Subpart MM

#### Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU2500RF1	No. 1 Recovery Furnace	Filterable PM	$\leq 0.036$ gr/DSCF @ 8% O <sub>2</sub> and/or $\leq 52.2$ lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	TRS	$< 5$ ppmv @ 8% O <sub>2</sub> as a 12-hr block average	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	SO <sub>2</sub>	$\leq 144$ ppmv @ 8% O <sub>2</sub> and/or $\leq 243$ lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	NO <sub>x</sub>	$\leq 112$ ppmv @ 8% O <sub>2</sub> and/or $\leq 136$ lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	VOC	$\leq 0.048$ lbs/MMBtu and/or $\leq 37.2$ lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	CO	$\leq 300$ ppmv @ 8% O <sub>2</sub> and/or 222 lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	SAM	$\leq 12.2$ lbs/hr	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	Opacity	$\leq 35\%$ (6-min average)	Rule 335-3-14-.04
EU2500RF1	No. 1 Recovery Furnace	HAPS	Filterable PM as a surrogate for HAPS, $\leq 0.036$ gr/DSCF @ 8% O <sub>2</sub>	Rule 335-3-11-.06(1) and (38)

#### Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Black Liquor Solids		
Fuel Oil	3.0	N/A
Natural Gas		

## No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of ADEM Admin. Code 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, volatile organic compounds and sulfuric acid mists.	Rule 335-3-14-.04
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 335-3-11-.06(38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
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
2. Total reduced sulfur emissions shall not exceed 5 parts per million by volume at 8% oxygen averaged over discrete 12-hour periods.	Rule 335-3-14-.04
3. 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
4. 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
5. 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
6. 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
7. Sulfuric acid mists emissions shall not exceed 12.2 pounds per hour.	Rule 335-3-14-.04
8. 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(1) and (38)
9. 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 Rule 335-3-11-.06(1) and (38)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-14-.02

## No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A or 16B or other method approved by the Department.	Rule 335-3-14-.02
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Method 6 or other method approved by the Department.	Rule 335-3-14-.02
4. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e or other method approved by the Department.	Rule 335-3-14-.02
5. Compliance with the volatile organic compound emission limit shall be determined in accordance with the 40 CFR Part 60 Method 25, 25A or 25B or other method approved by the Department.	Rule 335-3-14-.02
6. Compliance with the sulfuric acid mists emission limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13B or other method approved by the Department.	Rule 335-3-14-.02
7. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other method approved by the Department.	Rule 335-3-14-.02
8. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9 or other method approved by the Department.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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 emission monitoring system for the measurement of total reduced sulfur and oxygen shall be installed, operated and maintained.	Rule 335-3-14-.02

## No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
5. 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 335-3-16-.05 Rule 335-3-11-.06(1) and (38)
6. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
7. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
8. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
9. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-14-.02
10. A sulfuric acid mist emission test shall be performed at least once every five years.	Rule 335-3-14-.02
11. 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(1) and (38)
12. In accordance with 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020, pursuant to 40 CFR 63.865 and every 5 years thereafter.  Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06(1) and (38)
13. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06(1) and (38)
<b>Recordkeeping and Reporting Requirements</b>	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-14-.02
2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-14-.02
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.	Rule 335-3-14-.02
4. 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"> <li>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,</li> </ul>	Rule 335-3-05-.04(9)

## No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>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>5. 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:</p> <p>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).</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 opacity monitor 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 opacity monitor was not inoperative or did not require repairs or adjustments, such information will be stated in the report.</p>	Rule 335-3-16-.05
<p>6. A sulfur dioxide emission test report shall be submitted to the Department at least every five years.</p>	Rule 335-3-14-.02
<p>7. A nitrogen oxide emission test report shall be submitted to the Department at least every five years.</p>	Rule 335-3-14-.02
<p>8. A volatile organic compound emission test report shall be submitted to the Department at least every five years.</p>	Rule 335-3-14-.02
<p>9. A carbon monoxide emission test report shall be submitted to the Department at least every five years.</p>	Rule 335-3-14-.02

## No. 1 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>10. A sulfuric acid mist emission test report shall be submitted to the Department at least every five years.</p>	Rule 335-3-14-.02
<p>11. 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(1) and (38)
<p>12. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the black liquor firing rates in terms of tons/day or Mg/day.</p>	Rule 335-3-11-.06(1) and (38)
<p>13. 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) once the reporting form specific to 40 CFR Part 63 Subpart MM has been available in CEDRI for one year.</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(1) and (38)
<p>14. 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(1) and (38)

## No. 1 Smelt Tank Informational Summary

**Description:** No. 1 Smelt Tank

**Emission Unit No:** EU2500SDT1

**Installation Date:** 1966

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

**Operating Capacity:** 125,000 lbs/hr Black Liquor Solids

**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	$\leq 0.5$ lbs/ADTP	Rule 335-3-4-.07
EU2500SDT1	No. 1 Smelt Tank	TRS	$\leq 0.033$ lb/ton of BLS	Rule 335-3-5-.04
EU2500SDT1	No. 1 Smelt Tank	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01
EU2500SDT1	No. 1 Smelt Tank	HAPS	Filterable PM as a surrogate for HAPS, $\leq 0.20$ lbs/ton of BLS	Rule 335-3-11-.06(1) and (38)

## No. 1 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.07 for particulate matter.	Rule 335-3-4-.07
3. This source is subject to the requirements of ADEM Admin. Code 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 335-3-11-.06(38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
1. Filterable particulate matter emissions shall not exceed 0.5 pounds per air-dry ton of pulp.	Rule 335-3-4-.07
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
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(1) and (38)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-14-.02
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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 335-3-16-.05
3. For particulate matter periodic monitoring, if any three-hour block average total liquid flow to the scrubber is less than the operational	Rule 335-3-11-.06(1) and (38)

## No. 1 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<p>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.</p> <p>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 zone spray nozzles) and the fan amperage. The parametric monitoring system shall meet the requirements listed in 40 CFR 63.8(c).</p> <p>Monitoring of the flow rate and fan amperage is an approved alternative to the requirements listed in 40 CFR 63.864(e)(10).</p> <p>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).</p> <p>No more than one exceedance will be attributed in any given 24-hour period.</p>	<p>Rule 335-3-11-.06(1) and (38)</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>Rule 335-3-11-.06(1) and (38)</p>
<p>6. 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>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.</p>	<p>Rule 335-3-11-.06(1) and (38)</p>
<p>8. As stated in 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020 pursuant to 40 CFR 63.865 and every 5 years thereafter.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p>	<p>Rule 335-3-11-.06(1) and (38)</p>
<p><b>Recordkeeping and Reporting Requirements</b></p>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	<p>Rule 335-3-14-.02</p>

## No. 1 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<p>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.</p>	Rule 335-3-14-.02
<p>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.</p>	Rule 335-3-14-.02
<p>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):</p> <ul style="list-style-type: none"> <li>• Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the 3-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;</li> <li>• 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.</li> <li>• Maintain records and documentation of supporting calculations for compliance determination made under 40 CFR 63.865(a) through (d);</li> <li>• Maintain the records of the monitoring parameter ranges for the scrubber liquid flow rates and scrubber fan amperage.</li> </ul>	Rule 335-3-11-.06(1) and (38)
<p>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</p>	Rule 335-3-11-.06(1) and (38)

**No. 1 Smelt Tank  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>from both the Summary Report and Excess Emissions Report must be submitted.</p> <p>Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2) once the reporting form specific to 40 CFR Part 63 Subpart MM has been available in CEDRI for one year.</p> <p>Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.</p>	

**No. 1 Smelt Tank  
Provisos**

<b>State Only Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04(7) total reduced sulfur from kraft pulp mill smelt tanks.	Rule 335-3-5-.04(7)
<b>Emission Standards</b>	
1. Total reduced sulfur emissions shall not exceed 0.033pounds 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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A or 16B or other method approved by the Department.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	
1. A total reduced sulfur emission test shall be performed at least once per every five years.	Rule 335-3-14-.02
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
3. If any three-hour block average scrubber liquor pH 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.	
<b>Recordkeeping and Reporting Requirements</b>	
1. A total reduced sulfur emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-14-.02
2. Records of all three-hour block average scrubber liquor pHs shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-14-.02

## 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	TRS	Incineration	Rule 335-3-5-.04(5)
EU2400EVP1	No. 1 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06(1) and (18)

## No. 1 Evaporator System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
<ol style="list-style-type: none"> <li>1. These sources are subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, “Major Source Operating Permits”.</li> <li>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).</li> </ol>	<p>Rule 335-3-16-.03</p> <p>Rule 335-3-11-.06(1) and (18)</p>
<b>Emission Standards</b>	
<ol style="list-style-type: none"> <li>1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements.</li> </ol>	<p>Rule 335-3-11-.06(1) and (18)</p>
<b>Compliance and Performance Test Methods and Procedures</b>	
<ol style="list-style-type: none"> <li>1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.</li> </ol>	<p>Rule 335-3-11-.06 (1) and (18)</p>
<b>Emission Monitoring</b>	
<ol style="list-style-type: none"> <li>1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.</li> </ol>	<p>Rule 335-3-11-.06(1) and (18)</p>
<b>Recordkeeping and Reporting Requirements</b>	
<ol style="list-style-type: none"> <li>1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.</li> </ol>	<p>Rule 335-3-11-.01</p>
State Only Enforceable Provisos	Regulations
<b>Applicability</b>	
<ol style="list-style-type: none"> <li>1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04(5) total reduced sulfur from kraft pulp mill evaporator systems.</li> </ol>	<p>Rule 335-3-5-.04(5)</p>
<b>Emission Standards</b>	
<ol style="list-style-type: none"> <li>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.</li> </ol>	<p>Rule 335-3-5-.04(5)</p>
<b>Compliance and Performance Test Methods and Procedures</b>	
<ol style="list-style-type: none"> <li>1. This source is subject to no additional requirements other than those listed in the general provisos.</li> </ol>	
<b>Emission Monitoring</b>	

**No. 1 Evaporator System  
Provisos**

**Federally Enforceable Provisos**

**Regulations**

- 
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 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	$\leq 0.044$ gr/DSCF @ 8% O <sub>2</sub> and/or $\leq 106$ lbs/hr	Rule 335-3-10-.02(1), (28) Rule 335-3-14-.04(9)
EU2500RF2	No. 2 Recovery Furnace	TRS	$\leq 5.0$ ppmv @ 8% O <sub>2</sub> (12-hr block avg)	Rule 335-3-10-.02(1) & (28) Rule 335-3-14-.04(9)
EU2500RF2	No. 2 Recovery Furnace	SO <sub>2</sub>	$\leq 140$ ppmv @ 8% O <sub>2</sub> and/or $< 394.0$ lb/hr	Rule 335-3-14-.04(9)
EU2500RF2	No. 2 Recovery Furnace	SO <sub>2</sub>	When fuel oil is fired, SO <sub>2</sub> emissions $\leq 0.3$ lb/MMBtu (fuel oil heat input)	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	SAM	$\leq 20$ lb/hr	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	NO <sub>x</sub>	$\leq 112$ ppmv @ 8% O <sub>2</sub> $\leq 10\%$ annual capacity factor	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04(9)
EU2500RF2	No. 2 Recovery Furnace	VOC	$\leq 0.03$ lb/MMBtu	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	CO	$\leq 879$ ppmv @ 8% O <sub>2</sub>	Rule 335-3-14-.04 (9)
EU2500RF2	No. 2 Recovery Furnace	Opacity	$\leq 35\%$ (6-min average)	Rule 335-3-10-.02(1), (28) Rule 335-3-14-.04(9)
EU2500RF2	No. 2 Recovery Furnace	HAPS	Filterable PM as a surrogate for HAPS, $\leq 0.028$ gr/dscf @ 8% O <sub>2</sub>	Rule 335-3-11-.06(1) and (38)

### Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.3	N/A
Black Liquor Solids		
Natural Gas		

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(1) and (28) New Source Performance Standards Subpart BB for kraft pulp mills and ADEM Admin. Code 335-3-14.	Rule 335-3-10-.02(1) and (28) Rule 335-3-14-.04(9)
3. This source is subject to the applicable requirements of ADEM Admin. Code 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 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, 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 335-3-11-.06 (38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
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(1), (28) Rule 335-3-14
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(1), (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 335-3-14-.04 (9)
5. Sulfuric acid mists emissions shall not exceed 20 pounds per hour.	Rule 335-3-14-.04 (9)
6. Nitrogen oxide emissions shall not exceed 112 parts per million by volume at 8% oxygen.	Rule 335-3-14-.04 (9)
7. 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)

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
8. Volatile organic compounds shall not exceed 0.03 pounds per million Btu.	Rule 335-3-14-.04(9)
9. Carbon monoxide emissions shall not exceed 879 pounds per million by volume at 8% oxygen.	Rule 335-3-14-.04(9)
10. 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(1) and (38)
11. 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 335-3-11-.06(1) and (38) Rule 335-3-14-.04(9)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-14-.02
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A or 16B or other method approved by the Department.	Rule 335-3-14-.02
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6 or other method approved by the Department or fuel oil sampling and analysis procedures in accordance with ASTM D270-65 (Re-approved 1975) and D 240-76 (IBR approved January 27, 1983) respectively.	Rule 335-3-14-.02
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 13B, or other method approved by the Department.	Rule 335-3-14-.02
5. Compliance with the nitrogen oxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e or other method approved by the Department.	Rule 335-3-14-.02
6. Compliance with the annual capacity factor limit shall be determined through recordkeeping.	
7. Compliance with the volatile organic compound emission limit shall be determined in accordance with the 40 CFR Part 60 Method 25, 25A or 25B or other method approved by the Department.	Rule 335-3-14-.02
8. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other method approved by the Department.	Rule 335-3-14-.02
9. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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 335-3-14-.02
5. 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 335-3-14-.02
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 335-3-16-.05 Rule 335-3-11-.06(1) and (38)
7. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
8. A sulfuric acid mists emission test shall be performed at least once every five years.	Rule 335-3-14-.02
9. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
10. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
11. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-14-.02
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 Part 63 Subpart MM.	Rule 335-3-11-.06(1) and (38)

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>13. In accordance with 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020, pursuant to 40 CFR 63.865 and every 5 years thereafter.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p>	Rule 335-3-11-.06(1) and (38)
<p>14. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.</p>	Rule 335-3-11-.06(1) and (38)
<b>Recordkeeping and Reporting Requirements</b>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	Rule 335-3-14-.02
<p>2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years.</p>	Rule 335-3-14-.02
<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</p>	Rule 335-3-14-.02
<p>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.</p>	Rule 335-3-14-.02
<p>5. 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"> <li>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).</li> <li>b. The date and time of commencement and completion of each time period of excess emissions.</li> <li>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</li> <li>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.</li> <li>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.</li> </ol>	Rule 335-3-10-.02(1) and (28)

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>6. 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:</p> <ul style="list-style-type: none"> <li>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).</li> <li>b. The date and time of commencement and completion of each time period of excess emissions.</li> <li>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</li> <li>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.</li> <li>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.</li> </ul>	Rule 335-3-16-.05
7. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
8. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
9. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
10. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
11. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
12. 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(1) and (38)
13. 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(1) and (38)

## No. 2 Recovery Furnace Provisos

Federally Enforceable Provisos	Regulations
<p>14. Pursuant to 40 CFR Part 63, Subpart MM the facility must submit an Excess Emissions Report containing the information required in 40 CFR 63.867(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 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.</p> <p>Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2) once the reporting form specific to 40 CFR Part 63 Subpart MM has been available in CEDRI for one year.</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(1) and (38)
<p>15. 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.</p>	Rule 335-3-11-.06(1) and (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	$\leq 0.2$ lbs/TBLS (dry weight) and/or $\leq 18.8$ lbs/hr	Rule 335-3-10-.02(1) and (28) Rule 335-3-14
EU2500SDT2	No. 2 Smelt Tank	TRS	$\leq 0.033$ lbs/TBLS	Rule 335-3-10-.02(1) and (28) Rule 335-3-14
EU2500SDT2	No. 2 Smelt Tank	SO <sub>2</sub>	$\leq 12$ ppmv and/or $\leq 6.3$ lbs/hr	Rule 335-3-14
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
EU2500SDT2	No. 2 Smelt Tank	HAPS	Filterable PM as a surrogate for HAPS, $\leq 0.20$ lbs/TBLS	Rule 335-3-11-.06(1) and (38)

## No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04 and ADEM Admin. Code 335-3-10-.02(1) and (28) New Source Performance Standards Subpart BB for kraft pulp mills for total reduced sulfur.	Rule 335-3-14-.04 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 for sulfur dioxide.	Rule 335-3-14-.04
4. This source is subject to the requirements of ADEM Admin. Code 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 335-3-11-.06(38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
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(1) and (28) Rule 335-3-14
2. Total reduced sulfur emissions shall not exceed 0.033 pounds per ton of black liquor solids.	Rule 335-3-10-.02(1) and (28) Rule 335-3-14
3. Sulfur dioxide emissions shall not exceed the more stringent of 12 ppmv and 6.3 pounds per hour.	Rule 335-3-14
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
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(1) and (38)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-14-.02
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A or 16B or other method approved by the Department.	Rule 335-3-14-.02

## No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
3. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Method 6 or other method approved by the Department.	Rule 335-3-14-.02
4. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
2. A total reduced sulfur emission test shall be performed at least once every five years.	Rule 335-3-14-.02
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 335-3-16-.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 expeditiously as possible.	Rule 335-3-11-.06(1) and (38)
5. For total reduced sulfur periodic monitoring, if any three-hour block average scrubber liquor pH 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).	Rule 335-3-11-.06(1) and (38)
<p>Monitoring of the flow rate and fan amperage is an approved alternative to the requirements listed in 40 CFR 63.864(e)(10).</p> <p>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).</p> <p>No more than one exceedance will be attributed in any given 24-hour period.</p>	

## No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<p>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.</p>	
<p>8. A sulfur dioxide emission test shall be performed at least once every five years.</p>	Rule 335-3-14-.02
<p>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.</p>	Rule 335-3-11-.06(1) and (38)
<p>10. As stated in 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020 pursuant to 40 CFR 63.865 and every 5 years thereafter.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p>	Rule 335-3-11-.06(1) and (38)
<p><b>Recordkeeping and Reporting Requirements</b></p>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	Rule 335-3-14-.02
<p>2. A total reduced sulfur emission test report shall be submitted to the Department at least once every five years.</p>	Rule 335-3-14-.02
<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.</p>	Rule 335-3-14-.02
<p>4. Records of all three-hour block average wet scrubber liquid flow rates, scrubber liquor pHs and hourly fan amperage readings shall be made and maintained on file available for inspection for at least five years.</p>	Rule 335-3-14-.02
<p>5. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.</p>	Rule 335-3-14-.02
<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"> <li>• Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the 3-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;</li> </ul>	Rule 335-3-11-.06(1) and (38)

## No. 2 Smelt Tank Provisos

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> <li>• 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.</li> <li>• Maintain records and documentation of supporting calculations for compliance determination made under 40 CFR 63.865(a) through (d);</li> <li>• Maintain the records of the monitoring parameter ranges for the scrubber liquid flow rates and scrubber fan amperage.</li> </ul> <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 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.</p> <p>Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2) once the reporting form specific to 40 CFR Part 63 Subpart MM has been available in CEDRI for one year.</p> <p>Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.</p>	<p>Rule 335-3-11-.06(1) and (38)</p>

## 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
EU2400EVP2	No. 2 Evaporator System	HAPs	Incineration	Rule 335-3-11-.06(1) and (18)

## No. 2 Evaporator System Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to the requirements of New Source Performance Standards Subpart BB and ADEM Admin. Code 335-3-14-.04 for total reduced sulfur.	Rule 335-3-10-.02(1) and (28) Rule 335-3-14-.04
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)
<b>Emission Standards</b>	
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. 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 335-3-10-.02(1) and (28) Rule 335-3-14-.04
2. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Emission Monitoring</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Recordkeeping and Reporting Requirements</b>	
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:** N/A

**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(1) and (28)
EU6000CS	Condensate Stripper System	HAPs	Incineration	Rule 335-3-11-.06(1) and (18)

**Condensate Stripper System  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to the requirements of New Source Performance Standards Subpart BB and 40 CFR 60 Subpart A and ADEM Admin. Code 335-3-14-.04.	Rule 335-3-10-.02(1) and (28) Rule 335-3-14-.04
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)
<b>Emission Standards</b>	
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. 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 335-3-10-.02(1) and (28) Rule 335-3-14-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Emission Monitoring</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06(1) and (18)
<b>Recordkeeping and Reporting Requirements</b>	
1. See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06(1) and (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	$\leq 1.0$ lb/ADTP	Rule 335-3-4-.07
EU2200LK1	No. 1 Lime Kiln (State only)	TRS	$\leq 20$ ppmvd @ 10% O <sub>2</sub> (as a 12-hour block average)	Rule 335-3-5-.04
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
EU2200LK1	No. 1 Lime Kiln	HAPS	Filterable PM as a surrogate, $\leq 0.192$ gr/sdcf @ 10% O <sub>2</sub>	Rule 335-3-11-.06(1) and (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
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.07(2)(c) particulate matter from kraft pulp mill lime kilns.	Rule 335-3-4-.07(2)(c)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 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 335-3-11-.06(38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
1. Filterable particulate matter emissions shall not exceed 1.0 pounds per air-dried ton of pulp.	Rule 335-3-4-.07
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(1) and (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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate emission limit shall be determined in accordance with the 40 CFR 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-14-.02
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR 60 Method 9.	Rule 335-3-4-.01
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-5-.02
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 335-3-16-.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,	Rule 335-3-11-.06(1) and (38)

## No. 1 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
<p>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 expediently as possible. The facility is excluded from the requirement to implement corrective action during periods of startup and shutdown when the 3-hour 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>Rule 335-3-11-.06(1) and (38)</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>Rule 335-3-11-.06(1) and (38)</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>Rule 335-3-11-.06(1) and (38)</p>
<p>7. In accordance with 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020 pursuant to 40 CFR 63.865 and every 5 years thereafter.</p> <p>Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.</p>	<p>Rule 335-3-11-.06(1) and (38)</p>
<p><b>Recordkeeping and Reporting Requirements</b></p>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	<p>Rule 335-3-14-.02</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.</p>	<p>Rule 335-3-14-.02</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.</p>	<p>Rule 335-3-14-.02</p>

## No. 1 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
<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>	Rule 335-3-11-.06(1) and (38)
<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> <ul style="list-style-type: none"> <li>• Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the 3-hour average flow rate or pressure drop, during times when lime mud is fed, were inconsistent with the levels established during the initial or subsequent performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, the time corrective action was initiated and completed, and corrective action taken.</li> <li>• 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.</li> <li>• The facility must also maintain records and documentation of supporting calculation for compliance determinations made under 40 CFR 63.865(a) through (d).</li> <li>• The facility must also maintain the records of the monitoring parameter ranges for the scrubber's pressure drop and scrubber flow rates.</li> </ul>	Rule 335-3-11-.06(1) and (38)
<p>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.</p> <p>Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2) once the reporting</p>	Rule 335-3-11-.06(1) and (38)

**No. 1 Lime Kiln  
Provisos**

**Federally Enforceable Provisos**

**Regulations**

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form specific to 40 CFR Part 63, Subpart MM has been available in CEDRI for one year.

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

## No. 1 Lime Kiln Provisos

No. 1 Lime Kiln State Only Enforceable Provisos	Regulations
<p><b>Applicability</b></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><b>Emission Standards</b></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
<p><b>Compliance and Performance Test Methods and Procedures</b></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 or 16B or other method approved by the Department.</p>	Rule 335-3-14-.02
<p><b>Emission Monitoring</b></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><b>Recordkeeping and Reporting Requirements</b></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"> <li>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).</li> <li>b. The date and time of commencement and completion of each time period of excess emissions.</li> <li>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</li> <li>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.</li> <li>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.</li> </ol>	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	$\leq 0.035$ gr/dscf @ 10% O <sub>2</sub> and/or $\leq 7.9$ lbs/hr (when firing natural gas)	Rule 335-3-10-.02(28) Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	Filterable PM	$\leq 0.064$ gr/dscf @ 10% O <sub>2</sub> (when firing fuel oil)	Rule 335-3-11-.06(1) and (38)
EU2200LK2	No. 2 Lime Kiln	TRS	$\leq 8$ ppmv @ 10% O <sub>2</sub> . (as 12-hr block avg.)	Rule 335-3-10-.02(28) Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	SO <sub>2</sub>	$\leq 44$ ppmv @ 10% O <sub>2</sub> . 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
EU2200LK2	No. 2 Lime Kiln	NO <sub>x</sub>	$\leq 336$ ppmv @ 10% O <sub>2</sub>	Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	CO	$\leq 52$ ppmv @ 10% O <sub>2</sub>	Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	VOC	$\leq 78$ ppmv @ 10% O <sub>2</sub>	Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	SAM	$\leq 12.9$ ppmv @ 10% O <sub>2</sub> and/or $\leq 4.3$ lbs/hr	Rule 335-3-14-.04(9)
EU2200LK2	No. 2 Lime Kiln	HAPs	Filterable PM as a surrogate, $\leq 0.035$ gr/dscf @ 10% O <sub>2</sub>	Rule 335-3-11-.06(1) and (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
<b>Applicability</b>	
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 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 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for 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 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 335-3-11-.06(38).	Rule 335-3-11-.06(1) and (38)
<b>Emission Standards</b>	
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 335-3-10-.02(28) 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(1) and (38)
3. Total reduced sulfur shall not exceed 8 parts per million at 10 percent oxygen as a twelve hour block average.	Rule 335-3-14-.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-.94(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
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)

## No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
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(1) and (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(1) and (38)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5. Alternative test methods may be used provided prior approval by the Department is granted.	Rule 335-3-10-.02(28) Rule 335-3-14-.02
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9.	Rule 335-3-4-.01
3. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A or 16B or other method approved by the Department.	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 or other method approved by the Department.	Rule 335-3-14-.02
5. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other method approved by the Department	Rule 335-3-14-.02
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 or other method approved by the Department.	Rule 335-3-14-.02
7. Compliance with the sulfur dioxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 6 or fuel oil sampling and analysis.	Rule 335-3-14-.02
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 13B, or other method approved by the Department.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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	Rule 335-3-11-.06(1) and (38)

## No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
include completion of transient startup and shutdown conditions as expediently as possible.	
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 335-3-14-.02
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 335-3-14-.02
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 335-3-14-.02
7. A sulfur dioxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
8. A nitrogen oxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
9. A carbon monoxide emission test shall be performed at least once every five years.	Rule 335-3-14-.02
10. A volatile organic compound emission test shall be performed at least once every five years.	Rule 335-3-14-.02
11. A sulfuric acid mists emission test shall be performed at least once every five years.	Rule 335-3-14-.02
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(1) and (38)
13. In accordance with 40 CFR 63.863(c)(1), the first periodic particulate matter performance test shall be performed by October 13, 2020 pursuant to 40 CFR 63.865 and every 5 years thereafter.  Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06(1) and (38)
14. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06(1) and (38)
<b>Recordkeeping and Reporting Requirements</b>	

## No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-14-.02
2. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-14-.02
3. Records of all three-hour block average lime mud flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-14-.02
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"> <li>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).</li> <li>b. The date and time of commencement and completion of each time period of excess emissions.</li> <li>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</li> <li>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.</li> <li>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.</li> </ul>	Rule 335-3-16-.05
5. Maintain vendor oil specifications on file available for inspection for at least five years	Rule 335-3-16-.05
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.	Rule 335-3-11-.06(1) and (38)
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.	Rule 335-3-11-.06(1) and (38)
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: <ul style="list-style-type: none"> <li>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</li> </ul>	Rule 335-3-10-.02(28) Rule 335-3-16-.05

## No. 2 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
<p>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>	
9. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
10. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
11. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
12. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
13. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
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.	Rule 335-3-11-.06(1) and (38)
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	Rule 335-3-11-.06(1) and (38)

**No. 2 Lime Kiln  
Provisos**

**Federally Enforceable Provisos**

**Regulations**

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) once the reporting form specific to 40 CFR Part 63, Subpart MM has been available in CEDRI for one year.

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

## 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	$\leq 3.2$ lbs/hr	Rule 335-3-14-.04(9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	SO <sub>2</sub>	$\leq 8.9$ lbs/hr	Rule 335-3-14-.04(9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	NO <sub>x</sub>	$\leq 34.25$ lbs/hr	Rule 335-3-14-.04(9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	SAM	$\leq 1.5$ lbs/hr	Rule 335-3-14-.04(9)
EU6000NCG	Non-Condensable Gas Thermal Oxidation System	Opacity	$\leq 20\%$ 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 $\leq 40\%$	Rule 335-3-4-.01
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
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, “Major Source Operating Permits”.	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 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)
<b>Emission Standards</b>	
1. Filterable particulate emissions shall not exceed 3.2 pounds per hour.	Rule 335-3-14-.04
2. Sulfur dioxide emissions shall not exceed 8.9 pounds per hour.	Rule 335-3-14-.04
3. Nitrogen oxide emissions shall not exceed 34.25 pounds per hour.	Rule 335-3-14-.04
4. Sulfuric acid mists emissions shall not exceed 1.5 pounds per hour.	Rule 335-3-14-.04
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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17 or other method approved by the Department.	Rule 335-3-14-.02
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 6 or other method approved by the Department.	Rule 335-3-14-.02
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 or other method approved by the Department.	Rule 335-3-14-.02
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 13B, or other method approved by the Department.	
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once every year.	Rule 335-3-14-.02

## Non-Condensable Gas Thermal Oxidation System Provisos

Federally Enforceable Provisos	Regulations
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 the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
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 335-3-14-.02
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 335-3-16-.05
6. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
7. A sulfuric acid mists emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
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)
<b>Recordkeeping and Reporting Requirements</b>	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-14-.02
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.	Rule 335-3-14-.02
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-14-.02
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.	Rule 335-3-14-.02
5. A nitrogen oxide emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-14-.02

**Non-Condensable Gas Thermal Oxidation System  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
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.	Rule 335-3-14-.02
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-14-.02

## 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

**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

## No. 1 Paper Machine and Coaters Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to a prevention of significant deterioration best available control technology "work practice standard" limit for volatile organic compounds.	Rule 335-3-14-.04
<b>Emission Standards</b>	
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
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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Emission Monitoring</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Recordkeeping and Reporting Requirements</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	

## 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

**No. 2 Paper Machine and Coaters  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
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 a prevention of significant deterioration best available control technology "work practice standard" limit for volatile organic compounds.	Rule 335-3-14-.04
<b>Emission Standards</b>	
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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Emission Monitoring</b>	
1. This source is subject to no additional requirements other than those listed in the general provisos.	
<b>Recordkeeping and Reporting Requirements</b>	
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) 0.2 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 Rule 335-3-4-.03
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	SO <sub>2</sub>	The fuel oil sulfur content $\leq$ 0.5%	Rule 335-3-14
EU0400WRB1	No. 1 Wood Residue Boiler	Opacity	$\leq$ 20% with one six-minute period up to 40% in any one hour period.	Rule 335-3-4-.01
EU0400WRB1	No. 1 Wood Residue Boiler	HCl	0.022 lb/MMBtu (0.025 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)
EU0400WRB1	No. 1 Wood Residue Boiler	Mercury	$\leq$ 3200 grams per 24-hour period.	Rule 335-3-11-.02(4)
EU0400WRB1	No. 1 Wood Residue Boiler	Mercury	5.7E-06 lb/MMBtu (6.4E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)

### Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Wood	N/A	N/A
Fuel Oil	0.5	N/A
Biomass		
Natural Gas		
Crude Tall Oil & its derivatives		

## No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
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 335-3-4-.08 and ADEM Admin. Code 335-3-4-.03 for particulate matter.	Rule 335-3-4-.08 Rule 335-3-4-.03
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
4. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
5. This source is subject to 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(4)
6. 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(107)
<b>Emission Standards</b>	
1. Particulate matter emissions shall not exceed: <ul style="list-style-type: none"> <li>(a) 0.17 grains per dry standard cubic foot, adjusted to fifty percent (50%) excess air for combination gas and wood residue boilers.</li> <li>(b) 0.20 grains per dry standard cubic foot, adjusted to 50 percent excess air for combination oil and wood residue boilers.</li> <li>(c) 0.20 grains per dry standard cubic foot, adjusted to fifty percent (50%) excess air for boilers using wood residue only.</li> </ul>	Rule 335-3-4-.03
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
3. 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)

## No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
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 0.022 lb/MMBtu of heat input or 0.025 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 335-3-11-.06(107) Rule 335-3-14-.04
7. The fuel oil sulfur content shall not exceed 0.5 percent by weight.	Rule 335-3-14-.04
8. 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
9. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02(4)
10. Mercury emissions shall not exceed 5.7E-06 lb/MMBtu of heat input or 6.4E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06(107)
11. In order to demonstrate compliance with the carbon monoxide limits, the oxygen content shall be maintained at or above the lowest hourly average oxygen level measured during the most recent carbon monoxide performance test.	Rule 335-3-11-.06(107)
12. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540(a).	Rule 335-3-11-.06(107)
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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17 or other method approved by the Department.	Rule 335-3-14-.02 Rule 335-3-11-.06(107)
2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with ASTM D129-64 or equivalent fuel sampling and analysis.	Rule 335-3-14-.02
3. Compliance with the opacity limit shall be determined in accordance with the 40 CFR Part 60 Method 9 or other method approved by the Department.	Rule 335-3-4-.01
4. 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 or other method approved by the Department.	Rule 335-3-14-.02 Rule 335-3-11-.06(107)

## No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
5. Compliance with the carbon monoxide emission limit shall be determined in accordance with the 40 CFR Part 60 Method 10. Alternate test methods may be used provided prior approval by the Department is granted.	Rule 335-3-11-.06(107)
6. Compliance with the hydrogen chloride emission limit shall be determined in accordance with the 40 CFR Part 60 Method 26 or 26A. Alternate test methods may be used provided prior approval by the Department is granted.	Rule 335-3-11-.06(107)
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-1-.04
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 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.	Rule 335-3-16-.05
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.	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 every calendar year.	Rule 335-3-16-.05
5. 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
6. In accordance with 40 CFR 63.7525(a)(7), an oxygen trim system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained. The oxygen level shall be set no lower than the lowest hourly average oxygen concentration measured during the most recent CO performance test as the operating limit for oxygen.	Rule 335-3-11-.06(107)
7. A mercury initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2017 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the mercury 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,	Rule 335-3-11-.06(107)

## No. 1 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
<p>performance tests may be conducted for mercury every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.</p>	
<p>8. 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>	Rule 335-3-11-.02(4)
<p>9. A carbon monoxide initial performance test shall be performed within 180 days of the January 31, 2017 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the carbon monoxide 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 carbon monoxide every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.</p>	Rule 335-3-11-.06(107)
<p>10. A hydrogen chloride initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2017 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the hydrogen chloride 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 hydrogen chloride every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.</p>	Rule 335-3-11-.06(107)
<p><b>Recordkeeping and Reporting Requirements</b></p>	
<p>1. A particulate matter emission test report shall be submitted to the Department at least once per year.</p>	Rule 335-3-14-.02
<p>2. Maintain vendor oil specifications on file available for inspection for at least five years.</p>	Rule 335-3-16-.05
<p>3. Records of all 30-day rolling average steaming rates shall be made and maintained on file available for inspection for at least five years.</p>	Rule 335-3-14-.02
<p>4. 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.</p>	Rule 335-3-14-.02
<p>5. 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.</p>	Rule 335-3-11-.06(107)

**No. 1 Wood Residue Boiler  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
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. This source shall maintain all applicable records required under 40 CFR 63.7555.	Rule 335-3-11-.06(107)
8. This source shall submit all applicable reports required under 40 CFR 63.7550.	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	$\leq 0.1$ lbs/MMBtu heat input and/or $\leq 55.0$ lbs/hr	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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 <sub>2</sub>	$\leq 0.0096$ lbs/MMBtu heat input and/or $\leq 5.3$ lbs/hr when wood residue, natural gas or wood residue and natural gas are fired	Rule 335-3-14-.04
EU0400WRB2	No. 2 Wood Residue Boiler	NO <sub>x</sub>	$\leq 0.3$ lbs/MMBtu heat input 10% the annual capacity factor for natural gas	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
EU0400WRB2	No. 2 Wood Residue Boiler	CO	$\leq 0.4$ lbs/MMBtu heat input	Rule 335-3-14-.04
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	$\leq 0.03$ lbs/MMBtu heat input	Rule 335-3-14-.04
EU0400WRB2	No. 2 Wood Residue Boiler	SAM	$\leq 0.0064$ lbs/MMBtu heat input and/or $\leq 3.5$ lbs/hr when when wood residue, natural gas or wood residue and natural gas are fired	Rule 335-3-14-.04
EU0400WRB2	No. 2 Wood Residue Boiler	Opacity	$\leq 20\%$ except for one six-minute period per hour $\leq 27\%$ .	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
EU0400WRB2	No. 2 Wood Residue Boiler	Mercury	$\leq 3200$ grams per 24-hour period.	Rule 335-3-11-.02(4)

## No. 2 Wood Residue Boiler

### Provisos

EU0400WRB2	No. 2 Wood Residue Boiler	Mercury	5.7E-06 lb/MMBtu (6.4E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)
EU0400WRB2	No. 2 Wood Residue Boiler	HCl	0.022 lb/MMBtu (0.025 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)

### 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
<b>Applicability</b>	
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 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) Rule 335-3-14-.04
3. This Source is subject to the requirements of ADEM Admin. Code 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, carbon monoxide, volatile organic compounds, sulfuric acid mists and nitrogen oxide.	Rule 335-3-14-.04
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(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, and must be compliant with this rule by January 31, 2016.	Rule 335-3-11-.06(107)
<b>Emission Standards</b>	
1. Particulate matter emissions shall not exceed the more stringent of 0.1 pounds per million Btu heat input and 55.0 pounds per hour.	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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 335-3-14-.04
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
5. Nitrogen oxide emissions shall not exceed 0.3 pounds per million Btu heat input.	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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	Rule 335-3-10-.02(2)(b)

## No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
unit had it been operated 8,760 hours at the maximum steady state design heat input.	
7. Carbon monoxide emissions shall not exceed 0.4 pounds per million Btu heat input.	Rule 335-3-14-.04 Rule 335-3-11-.06(107)
8. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 3,500 ppm by volume on a dry basis corrected to 3% oxygen, or 3.5 lb/MMBtu of steam output, on a 3- hour average.	
9. Volatile organic compound emissions shall not exceed 0.03 pounds per million Btu heat input.	Rule 335-3-14-.04
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
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) Rule 335-3-14
12. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02(4)
13. Mercury emissions shall not exceed 5.7E-06 lb/MMBtu of heat input or 6.4E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06(107)
14. Hydrogen chloride emissions shall not exceed 0.022 lb/MMBtu of heat input or 0.025 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. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540(a).	Rule 335-3-11-.06(107)
17. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04 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 other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04
3. Compliance with the nitrogen oxide limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e or other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04

## No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
4. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other method approved by the Department.	Rule 335-3-14-.02 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 25, 25A or 25B or other method approved by the Department.	Rule 335-3-14-.02
6. Compliance with the sulfuric acid mists limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13B, or other method approved by the Department.	Rule 335-3-14-.02
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) Rule 335-3-14-.04
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 or other method approved by the Department.	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. Alternate test methods may be used provided prior approval by the Department is granted.	Rule 335-3-11-.06(107)
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
3. At all times, except when firing natural gas only, for particulate matter periodic monitoring, if any 30-day rolling average total 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.	Rule 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
4. For sulfur dioxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
5. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
6. The natural gas heat inputs in million Btus per calendar year shall be monitored.	Rule 335-3-14-.02

## No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
7. A carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
8. In accordance with 40 CFR 63.7525(a)(7), an oxygen trim system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained. The oxygen level shall be set no lower than the lowest hourly average oxygen concentration measured during the most recent CO performance test as the operating limit for oxygen.	Rule 335-3-11-.06(107)
9. A carbon monoxide initial performance test shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the carbon monoxide 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 carbon monoxide 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)
10. Since this unit is controlled by a wet ESP, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring	Rule 335-3-14-.02
11. A volatile organic compound emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
12. 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 335-3-14-.02
13. A mercury initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the mercury 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 mercury 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)
14. 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 335-3-14-.02
15. A hydrogen chloride initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the hydrogen chloride emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the	Rule 335-3-11-.06(107)

## No. 2 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for hydrogen chloride every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	
<b>Recordkeeping and Reporting Requirements</b>	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-14-.02
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 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
4. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
5. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
6. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
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 335-3-14-.02
9. A record 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 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
10. 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)
11. This source shall maintain all applicable records required under 40 CFR 63.7555.	Rule 335-3-11-.06(107)
12. This source shall submit all applicable reports required under 40 CFR 63.7550.	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	$\leq 0.1$ lbs/MMBtu heat input and/or $\leq 91.5$ lbs/hr	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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 <sub>2</sub>	$\leq 0.0096$ lbs/MMBtu heat input and/or $\leq 8.8$ lbs/hr	Rule 335-3-14-.04
EU0400WRB3	No. 3 Wood Residue Boiler	NO <sub>x</sub>	$\leq 0.3$ lbs/MMBtu heat input. 10 % combined annual capacity factor	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
EU0400WRB3	No. 3 Wood Residue Boiler	CO	$\leq 0.4$ lbs/MMBtu heat input	Rule 335-3-14-.04
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	$\leq 0.03$ lbs/MMBtu heat input	Rule 335-3-14-.04
EU0400WRB3	No. 3 Wood Residue Boiler	SAM	$\leq 0.012$ lbs/MMBtu and/or $\leq 10.8$ lbs/hr	Rule 335-3-14-.04
EU0400WRB3	No. 3 Wood Residue Boiler	Opacity	$\leq 20$ percent except for one six-minute period per hour $\leq 27\%$	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
EU0400WRB3	No. 3 Wood Residue Boiler	Mercury	$\leq 3200$ grams per 24-hour period	Rule 335-3-11-.02(4)
EU0400WRB3	No. 3 Wood Residue Boiler	Mercury	5.7E-06 lb/MMBtu (6.4E-06 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)
EU0400WRB3	No. 3 Wood Residue Boiler	HCl	0.022 lb/MMBtu (0.025 lb/MMBtu of steam output)	Rule 335-3-11-.06(107)

**No. 3 Wood Residue Boiler  
Provisos**

**Permitted Fuels**

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

## No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02(1) and (2)(b) 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) Rule 335-3-14-.04
3. This Source is subject to the requirements of ADEM Admin. Code 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter, sulfur dioxide, carbon monoxide, volatile organic compounds, sulfuric acid mists and nitrogen oxide.	Rule 335-3-14-.04
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(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(107)
<b>Emission Standards</b>	
1. Particulate matter emissions shall not exceed the more stringent of 0.1 pounds per million Btu heat input and 91.5 pounds per hour.	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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 335-3-14-.04
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
5. Nitrogen oxide emissions shall not exceed 0.3 pounds per million Btu heat input.	Rule 335-3-10-.02(1) and (2)(b) Rule 335-3-14-.04
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)

## No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
7. Carbon monoxide emissions shall not exceed 0.4 pounds per million Btu heat input.	Rule 335-3-14-.04
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
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
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) Rule 335-3-14
12. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02(4)
13. Mercury emissions shall not exceed 5.7E-06 lb/MMBtu of heat input or 6.4E-06 lb/MMBtu of steam output.	Rule 335-3-11-.06(107)
14. Hydrogen chloride emissions shall not exceed 0.022 lb/MMBtu of heat input or 0.025 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. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540(a).	Rule 335-3-11-.06(107)
17. 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)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04 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 other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04
3. Compliance with the nitrogen oxide limit shall be determined in accordance with the 40 CFR Part 60 Method 7 or 7e or other method approved by the Department.	Rule 335-3-10-.02(2)(b) Rule 335-3-14-.04
4. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other method approved by the Department.	Rule 335-3-14-.02 Rule 335-3-11-.06(107)

## No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
5. Compliance with the volatile organic compound limit shall be determined in accordance with the 40 CFR Part 60 Method 25, 25A or 25B or other method approved by the Department.	Rule 335-3-14-.02
6. Compliance with the sulfuric acid mists limit shall be determined in accordance with the 40 CFR Part 60 Method 8, Conditional Test Method 13B, or other method approved by the Department.	Rule 335-3-14-.02
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) Rule 335-3-14-.04
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 or other method approved by the Department	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. Alternate test methods may be used provided prior approval by the Department is granted.	Rule 335-3-11-.06(107)
<b>Emission Monitoring</b>	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-14-.02
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 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
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 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.	Rule 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
4. For sulfur dioxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
5. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
6. The natural gas heat input in million Btus per calendar year shall be monitored.	Rule 335-3-14-.02
7. A carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02

## No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
8. In accordance with 40 CFR 63.7525(a)(7), an oxygen trim system, as defined in 40 CFR 63.7575, shall be installed, operated, and maintained. The oxygen level shall be set no lower than the lowest hourly average oxygen concentration measured during the most recent CO performance test as the operating limit for oxygen.	Rule 335-3-11-.06(107)
9. A carbon monoxide initial performance test shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the carbon monoxide 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 carbon monoxide 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)
10. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-14-.02
11. A volatile organic compound emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
12. 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 335-3-14-.02
13. A mercury initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the mercury 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 mercury 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)
14. 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 335-3-14-.02
15. A hydrogen chloride initial performance test or initial fuel sampling demonstration shall be performed within 180 days of the January 31, 2016 compliance date for 40 CFR Part 63, Subpart DDDDD, and annually thereafter within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the hydrogen chloride 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,	Rule 335-3-11-.06(107)

## No. 3 Wood Residue Boiler Provisos

Federally Enforceable Provisos	Regulations
performance tests may be conducted for hydrogen chloride every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	
<b>Recordkeeping and Reporting Requirements</b>	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-14-.02
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 335-3-10-.02(2)(b) Rule 335-3-11-.06(107)
3. A sulfur dioxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
4. A nitrogen oxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
5. A carbon monoxide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
6. A volatile organic compound emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
7. A sulfuric acid mists emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-14-.02
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 335-3-10-.02(2)(b)
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) Rule 335-3-14-.04
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 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)
12. This source shall maintain all applicable records required under 40 CFR 63.7555.	Rule 335-3-11-.06(107)
13. This source shall submit all applicable reports required under 40 CFR 63.7550.	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	$\leq 0.12$ lbs/MMBtu heat input	Rule 335-3-4-.03
EU0400POWR	No. 1 Power Boiler	SO <sub>2</sub>	The fuel oil sulfur content $\leq 0.5\%$	Rule 335-3-14-.04
EU0400POWR	No. 1 Power Boiler	Opacity	$\leq 20\%$ with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01

### 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
<b>Applicability</b>	
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 335-3-4-.03 for particulate matter from Fuel Burning Equipment.	Rule 335-3-4-.03
3. This source is subject to the requirements of ADEM Admin. Code 335-3-14-.04(9) for sulfur dioxide.	Rule 335-3-14-.04
4. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 Visible Emissions.	Rule 335-3-4-.01
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(107)
<b>Emission Standards</b>	
1. Particulate matter emissions shall not exceed 0.12 pounds per million Btu.	Rule 335-3-4-.03
2. The fuel oil sulfur content shall not exceed 0.5 percent.	Rule 335-3-5-.01
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
4. This unit shall be classified as a Gas 1 Unit as defined in 40CFR 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)
5. This source shall meet the energy assessment and tune-up requirements found in Table 3 of 40 CFR Part 63, Subpart DDDDD as referenced in 40 CFR 63.7540(a).	Rule 335-3-11-.06(107)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or 17, or other approved method.	Rule 335-3-14-.02
2. Compliance with the sulfur in fuel oil limit shall be determined by fuel oil vendor certification.	Rule 335-3-14-.02
3. Compliance with the Opacity limit shall be determined by 40 CFR Chapter 1 Appendix A Reference Method 9.	Rule 335-3-4-.01
<b>Emission Monitoring</b>	

## No. 1 Power Boiler Provisos

Federally Enforceable Provisos	Regulations
<p>1. For sulfur dioxide periodic monitoring, obtain fuel oil vendor certification of sulfur in fuel once per year.</p>	Rule 335-3-16-.05
<p>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 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>	Rule 335-3-14-.04
<p><b>Recordkeeping and Reporting Requirements</b></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 335-3-14-.02
<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 335-3-14-.02
<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 335-3-14-.02 and Rule 335-3-11-.06(107)
<p>4. This source shall maintain the records required under 40 CFR 63.7555(a) concerning initial notifications.</p>	Rule 335-3-11-.06(107)
<p>5. This source shall submit a report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1).</p>	Rule 335-3-11-.06(107)

## 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:** 568 MMBtu/hr

**Operating Schedule:** 8760 hours/year

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

**40 CFR 60 Subpart Db**

**40 CFR 60 Subpart GG**

**40 CFR Part 63 Subpart YYYYY**

### Pollutants Emitted:

Emission Point	Point Description	Pollutant	Emission Limit	Standard
EU0300CCGT	Gas Turbine	PM	From the stationary gas turbine (firing natural gas) $\leq 2.5$ lbs/hr and/or $\leq 0.0068$ lbs/MMBtu heat input	Rule 335-3-14-.04
EU0300CCGT	Duct Burner	PM	From the duct burner (firing natural gas) $\leq 0.01$ lbs/MMBtu and/or $< 2.1$ lbs/hr	Rule 335-3-14-.04
EU0300CCGT	Gas Turbine	NOx	From the stationary gas turbine (firing natural gas) $\leq 25$ ppmv @ 15% O <sub>2</sub> on a dry basis and/or $\leq 33.0$ lbs/hr.	Rule 335-3-10-.02 (1), (2)(b) Rule 335-3-10-.02(33) Rule 335-3-14-.04
EU0300CCGT	Duct Burner	NOx	From the duct burner (firing natural gas) $< 0.1$ lbs/MMBtu heat input and/or $\leq 20.0$ lbs/hr	Rule 335-3-10-.02(1), (2)(b) Rule 335-3-10-.02(33) Rule 335-3-14-.04
EU0300CCGT	Gas Turbine	CO	From the stationary gas turbine (firing natural gas) $\leq 28$ ppmv @ 15% O <sub>2</sub> on a dry basis and/or $\leq 22.0$ lbs/hr	Rule 335-3-14-.04
EU0300CCGT	Duct Burner	CO	From the duct burner (firing natural gas) $< 0.08$ lbs/MMBtu heat input and/or $\leq 16.1$ lbs/hr	Rule 335-3-14-.04
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

### Permitted Fuels

Fuel
Natural Gas

## Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
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 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
3. This source is subject to the applicable requirements of Rule 335-3-10-.02(2)(b) and Rule 335-3-10-.02(33), New Source Performance Standards Subpart Db and Subpart GG, respectively for particulate matter and nitrogen oxides.	Rule 335-3-10-.02 (1), (2)(b) Rule 335-3-10-.02(33)
4. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 Visible Emissions.	Rule 335-3-4-.01
5. This source may be subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines as listed in 40 CFR Part 63, Subpart YYYY.	Rule 335-3-11-.06(102)
<b>Emission Standards</b>	
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
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
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
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 335-3-10-.02 (1), (2)(b) Rule 335-3-10-.02(33) Rule 335-3-14-.04
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
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
7. The Combined Cycle Combustion Turbine shall be restricted to the firing of natural gas only.	Rule 335-3-14-.04
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

## Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5 or other approved methods by the Department.	Rule 335-3-14-.02
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 or other approved methods by the Department.	Rule 335-3-14-.02
3. Compliance with the carbon monoxide limit shall be determined in accordance with the 40 CFR Part 60 Method 10 or other approved methods by the Department.	Rule 335-3-14-.02
4. 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>Emission Monitoring</b>	
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 335-3-14-.02
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 Chapter 1 Part 60 Appendix F.	Rule 335-3-14-.02
3. A stationary gas turbine and a duct burner carbon monoxide emission test shall be performed at least once every 5 years.	Rule 335-3-14-.02
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
<b>Recordkeeping and Reporting Requirements</b>	
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:	Rule 335-3-16-.05

## Gas Turbine and Duct Burner Provisos

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> <li>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, repairs and adjustments shall not be included in any of the above data averages.</li> <li>b. The date and time of commencement and completion of each time period of excess emissions.</li> <li>c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</li> <li>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.</li> <li>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.</li> <li>f. When no excess emissions have occurred and the NOx emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.</li> </ul>	
<ul style="list-style-type: none"> <li>2. A stationary gas turbine and a duct burner carbon monoxide emission test report shall be submitted at least once every five years.</li> </ul>	Rule 335-3-14-.02
<ul style="list-style-type: none"> <li>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.</li> </ul>	Rule 335-3-14-.02

## 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 335-3-14-.04
EU2300SLK1	No. 1 Slaker	Opacity	≤ 20% with one six-minute period up to 40% in any one hour period	Rule 335-3-4-. 01

**No. 1 Slaker  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of ADEM Admin. Code 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter.	Rule 335-3-14-.04
3. This Source is subject to the requirements of ADEM Admin. Code 335-3-4-01 for opacity.	Rule 335-3-4-.01
<b>Emission Standards</b>	
1. Particulate emissions shall not exceed 1.0 pound per hour.	Rule 335-3-14-.04
2. Visible emissions shall not be greater than 20 percent opacity as determined by six minute averages, except during on 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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Appendix A Method 5.	Rule 335-3-14-.02
2. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	
1. None required.	Rule 335-3-16-.05
<b>Recordkeeping and Reporting Requirements</b>	
1. None required.	

## No. 2 Slaker Informational Summary

**Description:** No. 2 Slaker

**Emission Unit No:** EU2300SLK2

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

**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
EU2300SLK2	No. 2 Slaker	Opacity	≤ 20% with one six-minute period up to 40% in any one hour period	Rule 335-3-4-.01

**No. 2 Slaker  
Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This Source is subject to the requirements of ADEM Admin. Code 335-3-14-.04(9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limits for particulate matter.	Rule 335-3-14-.04
3. This Source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
<b>Emission Standards</b>	
1. Particulate emissions shall not exceed 1.0 pound per hour.	Rule 335-3-14-.04
2. Visible emissions shall not be greater than 20 percent opacity as determined by six minute averages, except during on 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
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Appendix A Method 5.	Rule 335-3-14-.02
2. Compliance with the opacity limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 9.	Rule 335-3-14-.02
<b>Emission Monitoring</b>	
1. None required.	Rule 335-3-16-.05
<b>Recordkeeping and Reporting Requirements</b>	
1. None required.	

## Pulping System Processes Informational Summary

**Description:** Pulping System Processes

**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:  
**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(b)-(d).	Rule 335-3-11-.06(18)

**Pulping System Processes  
Provisos**

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(b) – (d).	Rule 335-3-11-.06(18)
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## Pulping System Processes Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
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)
<b>Emission Standards</b>	
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-.01
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: <ul style="list-style-type: none"> <li>(i) Each knotter or screen system Listed below: <ul style="list-style-type: none"> <li>(A) Continuous Washing and Screening System, EU2800CWS knotter system</li> <li>(B) Continuous Washing and Screening System, EU2800CWS and Batch Washing and Screening System, EU2800BWS screen systems</li> </ul> </li> <li>(ii) Pulp washing systems: Continuous Washing and Screening System, EU2800CWS and Batch Washing and Screening System, EU2800BWS</li> </ul>	Rule 335-3-11-.01
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: <ul style="list-style-type: none"> <li>(1) One percent for control devices used to reduce the total HAP emissions from the LVHC system; and</li> <li>(2) Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and</li> <li>(3) Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.</li> </ul>	Rule 335-3-11-.01
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(b) – (d).	40 CFR Part 63 Section 63.443

## Pulping System Processes Provisos

Federally Enforceable Provisos	Regulations
<p>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:</p> <ul style="list-style-type: none"> <li>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</li> <li>b) Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by in introducing the HAP emission stream with the primary fuel or into the flame zone.</li> </ul>	40 CFR Part 63.443
<p><b>Compliance and Performance Test Methods and Procedures</b></p>	
<p>1. See Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems” for details.</p>	40 CFR Part 63.457
<p><b>Emission Monitoring</b></p>	
<p>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><b>Recordkeeping and Reporting Requirements</b></p>	
<p>1. For the HVLC sources, per the requirements of 40 CFR Part 63 Subpart S, no later than April 17, 2006, the permittee shall meet the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems provisos.</p>	Rule 335-3-11-.01
<p>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-.01

## Process Condensates Informational Summary

**Description:** Process Condensates

**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:

### 40 CFR Part 63 Subpart S

#### Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S446	Process Condensates, (1) Each digester system; (2) Each turpentine recovery system; (3) Each evaporator system condensate from: (i) the vapors from each stage where weak liquor is introduced (feed stages); and (ii) Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages); (4) Each LVHC collection system; and (5) Each LVHC collection system.	HAPs	Collect the pulping process condensates from the equipment systems in this section that in total contain a total HAP mass of 3.6 kilograms or more of total HAP per megagram (7.2 pounds per ton) of ODP.  Treat the pulping process condensates to 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
<b>Applicability</b>	
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)
<b>Emission Standards</b>	
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-.01
2. The pulping process condensates from the equipment systems in this section shall be conveyed in a closed collection system that is designed and operated to meet the requirements specified in bullets (a) and (b) of this section.	Rule 335-3-11-.01
(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-.01
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-.01

## Process Condensates Provisos

Federally Enforceable Provisos	Regulations
<p>5. For the condensate stripper system used to treat pulping system condensates to comply with the requirements specified in bullet 3 of this section, periods of excess emissions reported under 40 CFR Part 63.455 shall not be a violation of bullets 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.</p>	Rule 335-3-11-.01
<p><b>Compliance and Performance Test Methods and Procedures</b></p>	
<p>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.</p>	40 CFR Part 63.457
<p>2. For the closed-vent system see the Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems”.</p>	Rule 335-3-11-.06(18)
<p><b>Emission Monitoring</b></p>	
<p>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.</p>	Rule 335-3-11-.01
<p>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.</p>	Rule 335-3-11-.01
<p>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).</p> <p>(a) The process wastewater feed rate;</p> <p>(b) The steam feed rate.</p> <p>(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.)</p>	Rule 335-3-11-.01
<p>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).</p>	Rule 335-3-11-.01
<p>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:</p> <p>(a) During the initial performance test required in 40 CFR Part 63.457(a) or any subsequent performance test, continuously record the operating parameter;</p> <p>(b) Determinations shall be based on the control performance and parameter data monitored during the performance test,</p>	Rule 335-3-11-.01

## Process Condensates Provisos

### Federally Enforceable Provisos

### Regulations

supplemented if necessary by engineering assessments and the manufacturer's recommendations;

- (c) The owner or operator shall provide for the Administrator's approval the rationale for selecting the monitoring parameters necessary to comply with this section; and
- (d) Provide for the Administrator's approval the rational for the selected operating parameter value, and monitoring frequency, and averaging time. Include all data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the applicable emission standard.

### 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-.01

Rule 335-3-11-.01

## Enclosures and Closed-Vent Systems Informational Summary

**Description:** Enclosures and Closed-Vent Systems

**Emission Unit No:**

**Installation Date:**

**Reconstruction/Modification Date:**

**Operating Capacity:**

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	<p>(a) Each enclosure and closed-vent system shall meet the requirements specified in bullets (b) through (d) of this section.</p> <p>(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.</p> <p>(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, 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> <p>(1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's</p>	Rule 335-3-11-.06(18)

## Enclosures and Closed-Vent Systems

### Provisos

			<p>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</p> <p>(2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.</p>	
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## Enclosures and Closed-Vent Systems Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
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)
<b>Emission Standards</b>	
1. (a) 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 bullets (b) through (d) of this section.	Rule 335-3-11-.01
(b) Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified in 40 CFR 63.457(e). Each enclosure or hood opening closed during the initial performance test specified in 40 CFR 63.457(a) shall be maintained in the same closed and sealed position as during the performance test at all times except when necessary to use the opening for sampling, inspection, maintenance, or repairs.	Rule 335-3-11-.01
(c) Each component of the closed-vent system used to comply with 40 CFR 63.443(c), 63.444(b), and 63.445(b) that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in 40 CFR 63.457(d).	Rule 335-3-11-.01
(d) Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in 40 CFR 63.443, 63.444, or 63.445 shall comply with either of the following requirements:	Rule 335-3-11-.01
(1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or	
(2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	

## Enclosures and Closed-Vent Systems Provisos

### Federally Enforceable Provisos

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#### Compliance and Performance Test Methods and Procedures

1. *Detectable leak procedures.* To measure detectable leaks for closed-vent systems as specified in 40 CFR 63.450 or for pulping process wastewater collection systems as specified in 40 CFR Part 63.446(d)(2)(i), the owner or operator shall comply with the following:

- (1) Method 21, of 40 CFR Part 60, appendix A; and
- (2) The instrument specified in Method 21 shall be calibrated before use according to the procedures specified in Method 21 on each day that leak checks are performed. The following calibration gases shall be used:
  - (i) Zero air (less than 10 parts per million by volume of hydrocarbon in air); and
  - (ii) A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 parts per million by volume methane or n-hexane.

2. *Negative pressure procedures.* To demonstrate negative pressure at process equipment enclosure openings as specified in 40 CFR 63.450(b), the owner or operator shall use one of the following procedures:

- (1) An anemometer to demonstrate flow into the enclosure opening;
- (2) Measure the static pressure across the opening;
- (3) Smoke tubes to demonstrate flow into the enclosure opening; or
- (4) Any other industrial ventilation test method demonstrated to the Administrator's satisfaction.

#### Emission Monitoring

- 1. (a) Each enclosure and closed-vent system used to comply with 40 CFR 63.450(a) shall comply with the requirements specified in bullets (a)(1) through (a)(6) of this section.
  - (1) For each enclosure opening, a visual inspection of the closure mechanism specified in 40 CFR 63.450(b) shall be performed at once per calendar month with at least 21 days between inspections to ensure the opening is maintained in the closed position and sealed.
  - (2) Each closed-vent system required by 40 CFR 63.450(a) shall be visually inspected at least once per calendar month with at least 21 days elapsed time between inspections and at other times as requested by the Administrator. The visual inspection shall include inspection of ductwork, piping, enclosures, and connections to covers for visible evidence of defects.

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- (3) For positive pressure closed-vent systems or portions of closed-vent systems, demonstrate no detectable leaks as specified in 40 CFR 63.450(c) measured initially and annually by the procedures in 40 CFR 63.457(d).
  - (4) Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in 40 CFR 63.457(e).
  - (5) The valve or closure mechanism specified in 40 CFR 63.450(d)(2) shall be inspected at least once each calendar month, with at least 21 days elapsed time between inspections to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line.
  - (6) If an inspection required by bullets (a)(1) through (a)(6) of this section identifies visible defects in ductwork, piping, enclosures or connections to covers required by 40 CFR 63.450, or if an instrument reading of 500 parts per million by volume or greater above background is measured, or if enclosure openings are not maintained at negative pressure, then the following corrective actions shall be taken as soon as practicable.
    - (i) A first effort to repair or correct the closed-vent system shall be made as soon as practicable but no later than 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

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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.

### Recordkeeping and Reporting Requirements

- 1. (a) 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 bullets 1. (b) and (c) of this section for the monitoring parameters specified in 40 CFR 63.453.
- (b) For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment and shall record the following information for each inspection:
  - (1) Date of inspection;
  - (2) The equipment type and identification;
  - (3) Results of negative pressure tests for enclosures;
  - (4) Results of leak detection tests;
  - (5) The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection);
  - (6) The date the defect or leak was detected and the date of each attempt to repair the defect or leak;
  - (7) Repair methods applied in each attempt to repair the defect or leak;
  - (8) The reason for the delay if the defect or leak is not repaired within 15 days after discovery;
  - (9) The expected date of successful repair of the defect or leak if the repair is not completed within 15 days;
  - (10) The date of successful repair of the defect or leak;
  - (11) The position and duration of opening of bypass line valves and the condition of any valve seals; and

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(12) The duration of the use of bypass valves on computer controlled valves.

(c) The owner or operator shall record the CMS parameters specified in 40 CFR 63.453 and meet the requirements specified in bullet 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.

Rule 335-3-11-.01

## RICE Units Informational Summary

**Description:** RICE Units:

- 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 Recaust Drive Engine

<b>Emission Unit:</b>	<b>Installation Date:</b>	<b>Reconstruction/Modification Date:</b>
RICE-01	2009	February 6, 2019
RICE-02	2000	February 6, 2019
RICE-03	1989	February 6, 2019
RICE-04	1989	December 4, 2019
RICE-05	1989	N/A
RICE-06	1994	N/A
RICE-07	1998	N/A
RICE-08	1988	N/A
RICE-09	1997	N/A
RICE-10	February 6, 2019	N/A

**Operating Capacity:**

<b>Unit</b>	<b>HP</b>	<b>Type</b>	<b>Fuel</b>
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

<b>Operating Schedule:</b>	<b>Calendar Year Limit:</b>	<b>Non-Emergency Use</b>
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		

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

- 40 CFR Part 60 Subpart JJJJ**
- 40 CFR Part 63 Subpart ZZZZ**

## RICE Units Provisos

### 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 Recaust 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 Units Provisos

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
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)
2. Units RICE-01 – RICE-04 and RICE-10 are subject to the applicable requirements of ADEM Admin. Code R. 335-10-.02(88), “Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.	Rule 335-3-10-.02(88)
3. These units are subject to the opacity emission rate limits.	Rule 335-3-4-.01
<b>Emission Standards</b>	
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
2. Units RICE-01 – RICE-04 and RICE-10 shall: a) Operate and maintain the certified stationary SI internal combustion engine according to the manufacturer’s emission-related written instructions; b) Adjust engine settings according to and consistent with the manufacturer’s instructions; and c) Keep records of conducted maintenance to demonstrate compliance.	Rule 335-3-10-.02(88) Rule 335-3-11-.06(103)
3. Unit RICE-05 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first.; b) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Rule 335-3-11-.06(103)
4. Units RICE-06 – RICE-09 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first; b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Rule 335-3-11-.06(103)
5. 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 80.510(b):	Rule 335-3-11-.06(103)
i. Sulfur content shall not exceed 15 parts per million (ppm); and	
ii. Cetane index shall be a minimum of 40 <u>or</u> the aromatic content shall not exceed 35 volume percent	

## RICE Units Provisos

### Federally Enforceable Provisos

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6. In accordance with 40 CFR Part 60.4233(e), the permittee shall not cause or allow the emissions from RICE-01, RICE-02, RICE-03 and RICE-10 to exceed the applicable emission standards in Table 4 of the subpart, specifically: a) The NO<sub>x</sub> emission rate shall not exceed 2.7 g/kW-hr; b) The CO emission rate shall not exceed 4.4 g/kW-hr; c) The VOC emission rate shall not exceed 2.7 g/kW-hr.

Rule 335-3-10-.02(88)  
Rule 3-11-.06(103)

7. Pursuant to 40 CFR 60.4231(b), the permittee shall not cause or allow the emissions from RICE-04 to exceed the applicable emission standards in 40 CFR 90, specifically: a) The sum of the emissions of hydrocarbons (HC) and nitrogen oxides (NO<sub>x</sub>) shall not exceed 13.4 g/kW-hr; b) The CO emission rate shall not exceed 519 g/kW-hr.

Rule 335-3-10-.02(88)  
Rule 3-11-.06(103)

### 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.

Rule 335-3-1-.05

2. In accordance with 40 CFR 63.6640(f), units RICE-04 – RICE-09 shall adhere to these requirements:

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

i. There is no time limit on the use of emergency stationary RICE in emergency situations.

ii. 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.

iii. 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

3. Units RICE-01, RICE-02, RICE-03, RICE-04, and RICE-10 shall: a) Operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions; b) Adjust engine settings according to and consistent with the manufacturer's instructions; c) Keep records of conducted maintenance to demonstrate compliance.

Rule 335-3-10-.02(88)  
Rule 335-3-11-.06(103)

4. Units RICE-01, RICE-02, RICE-03, RICE-04, and RICE-10 must meet the requirements of 40 CFR Part 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 63 Subpart JJJJ for spark ignition engines.

Rule 335-3-10-.02(88)  
Rule 335-3-11-.06(103)

### Emission Monitoring

## RICE Units Provisos

Federally Enforceable Provisos	Regulations
1. In accordance with 40 CFR 63.6625(f), a non-resettable hour meter must be installed on units RICE-04 – RICE-09 prior to startup of the engine.	Rule 335-3-11-.06(103)
2. In accordance with 40 CFR 60.4234, owners/operators must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.233 over the entire life of the engine.	Rule 335-3-10-.02(88)
3. In accordance with 40 CFR 60.4243(a), the facility shall comply with the emission standards of Subpart JJJJ by purchasing an engine that is certified by the manufacturer to meet the requirements of 40 CFR 60.4233.	Rule 335-3-10-.02(88)
4. Units RICE-01, RICE-02, RICE-03, and RICE-10 are permitted to burn gasoline only.	Rule 335-3-10-.02(88) Rule 335-3-11-.06(103)
5. Unit RICE-04 is permitted to burn only propane or natural gas.	Rule 335-3-10-.02(88)
<b>Recordkeeping and Reporting Requirements</b>	
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 is 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.	Rule 335-3-11-.06(103)
2. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.	Rule 335-3-11-.06(103)
3. The facility shall 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).	Rule 335-3-10-.02(88)
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; 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.	Rule 335-3-10-.02(88) Rule 335-3-11-.06(103)

## Sources Subject Only to the General Provisos Informational Summary

**Description:**

**Emission Unit No:**

**Installation Date:**

**Reconstruction/Modification Date:**

**Operating Capacity:**

**Operating Schedule:** 8760 hours/year

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

### Pollutants Emitted

Emission limitations:

Description	Regulation
No. 1 Lime Storage System	General Provisos
No. 2 Lime Storage System	General Provisos
Common Paper Production Equipment	General Provisos
CCNK Recycling	General Provisos
OCC Recycling	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