



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: THE WESTERVELT COMPANY
FACILITY NAME: MOUNDVILLE SAWMILL
FACILITY/PERMIT NO.: 406-S003
LOCATION: MOUNDVILLE, HALE COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: June 30, 2017
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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>ADEM Admin. Code r. 335-3-16-.02(6)</p> <p>ADEM Admin. Code r. 335-3-16-.12(2)</p> <p>ADEM Admin. Code r. 335-3-16-.05(e)</p> <p>ADEM Admin. Code r. 335-3-16-.05(f)</p> <p>ADEM Admin. Code r. 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(h)</p>
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(i)</p>
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division 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 Air Division copies of records required to be kept by this permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(j)</p>
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(k)</p>
<p>9. <u>Certification of Truth, Accuracy, and Completeness</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>ADEM Admin. Code r. 335-3-16-.07(a)</p>
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	<p>ADEM Admin. Code r. 335-3-16-.07(b)</p>

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<p>(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;</p> <p>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</p> <p>(c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;</p> <p>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</p> <p>11. <u>Compliance Provisions</u></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> <p>12. <u>Compliance Certification</u></p> <p>The Permittee shall submit a complete and accurate compliance certification by February 28th of each year for each annual reporting period of this permit (January 1st – December 31st).</p> <p>(a) The compliance certification shall include the following:</p> <p>(1) The identification of each term or condition of this permit that is the basis of the certification;</p> <p>(2) The compliance status;</p> <p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Air Division may require to determine the compliance status of the source;</p>	<p>ADEM Admin. Code r. 335-3-16-.07(c)</p> <p>ADEM Admin. Code r. 335-3-16-.07(e)</p>

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<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;">Director, Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street SW., Suite 9T43 Atlanta, GA 30303-8960</p>	
<p><u>13. Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>ADEM Admin. Code r. 335-3-16-.13(5)</p>
<p><u>14. Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>

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<p><u>17. Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>ADEM Admin. Code r. 335-3-1-.08</p>
<p><u>18. Fugitive Dust</u></p> <p>(a) Reasonable precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.</p>	<p>ADEM Admin. Code r. 335-3-4-.02</p>
<p><u>19. Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>ADEM Admin. Code rs. 335-3-16-.13 and 335-3-16-.14</p>
<p><u>20. Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none">(1) The date, place, and time of all sampling or measurements;(2) The date analyses were performed;(3) The company or entity that performed the analyses;(4) The analytical techniques or methods used;(5) The results of all analyses; and(6) The operating conditions that existed at the time of sampling or measurement. <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.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)2.</p>

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<p><u>21. Reporting Requirements</u></p> <p>(a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. 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 ADEM Admin. Code r. 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report shall include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> <p><u>22. Emission Testing Requirements</u></p> <p>Each point of emission which requires testing shall be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning).</p> <p>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)3.</p> <p>ADEM Admin. Code rs. 335-3-1-.05(3) and 335-3-1-.04(1)</p> <p>ADEM Admin. Code r. 335-3-1-.04</p>

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<p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 60 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	ADEM Admin. Code r. 335-3-1-.04
<p>23. <u>Payment of Emission Fees</u></p> <p>(a) The Permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-7-.04 according to the schedule in ADEM Admin. Code r. 335-1-7-.05.</p> <p>(b) The Permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05.</p>	ADEM Admin. Code r. 335-1-7-.05 ADEM Admin. Code r. 335-1-7-.05
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	ADEM Admin. Code r. 335-3-1-.04(1)
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, 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>	ADEM Admin. Code r. 335-3-16-.05(a)
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p>	40 CFR Part 68

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<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 §68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	
<p><u>27. Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>ADEM Admin. Code r. 335-3-14-.01(1)(d)</p>
<p><u>28. Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>ADEM Admin. Code r. 335-3-1-.10</p>
<p><u>29. Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>ADEM Admin. Code r. 335-3-4-.01(1)</p>
<p><u>30. Fuel-Burning Equipment</u></p> <p>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 ADEM Admin. Code r. 335-3-4-.03.</p> <p>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 ADEM Admin. Code r. 335-3-5-.01.</p>	<p>ADEM Admin. Code r. 335-3-4-.03</p> <p>ADEM Admin. Code r. 335-3-5-.01</p>

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<p>31. <u>Process Industries – General</u></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 ADEM Admin. Code r. 335-3-4-.04.</p>	<p>ADEM Admin. Code r. 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></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>ADEM Admin. Code r. 335-3-1-.05</p>
<p>33. <u>Open Burning</u></p> <p>Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department’s rules and regulations applicable to open burning to be violated.</p>	<p>ADEM Admin. Code r. 335-3-3-.01</p>
<p>34. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) <u>Operation of Approved Monitoring</u></p> <p>(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d). Commencement of operation is defined to begin when the boiler I.D. fan is started and the fuel conveyor is running.</p> <p>(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required</p>	<p>40 CFR 64.7</p>

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

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with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(b) Quality Improvement Plan (QIP) Requirements

40 CFR 64.8

- (1) Based on the results of a determination made under Section 34(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
- (2) Elements of a QIP:
 1. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
 2. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
 - (i) Improved preventive maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control performance.

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<p>(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).</p> <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 34(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ol style="list-style-type: none"> 1. Failed to address the cause of the control device performance problems; or 2. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) <i>General reporting requirements</i></p> <ol style="list-style-type: none"> 1. On and after the date specified in Section 34(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3. 2. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable: <ol style="list-style-type: none"> (i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; (ii) Summary information on the number, duration and cause (including unknown 	<p>40 CFR 64.9</p>

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<p>cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 34(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) <i>General recordkeeping requirements.</i></p> <p>1. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 34(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>2. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p>	
<p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>(a) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions</p>	<p>40 CFR 64.10</p>

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<p>units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>(b) Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>(c) Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p> <p>35. Permit Shield</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 Regulatory Review Section of 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>ADEM Admin. Code r. 335-3-16-.10</p>

Emission Unit No. 001 and 003 (#1 & #2 Wood Residuals Boiler)

Summary Page

Description: 125 MMBtu/hr (Wellons) wood residuals boiler and multiclone venting to a dry electrostatic precipitator

125 MMBtu/hr (Teaford) wood residuals boiler and multiclone venting to a dry electrostatic precipitator

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
B-WW1	125 MMBtu/hr (Wellons) wood waste boiler and multiclone with ESP	PM	0.20 gr/dscf @ 50% EA	ADEM Admin. Code r. 335-3-4-.08(2)(d)
			0.10 lb/ MMBtu	40 CFR Part 60 Subpart Db
			0.02 lb/MMBtu of heat input or 0.055 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD
			PM Emissions below combined with 003	
			4.04 lb/hr (as TSP)	PSD (SMS)
			2.99 lb/hr (as PM ₁₀)	PSD (SMS)
			2.62 lb/hr (as PM _{2.5})	PSD (SMS)
		SO ₂	4.0 lb/MMBtu	ADEM Admin. Code r. 335-3-5-.01(b)
		NO _x	0.22 lb/MMBtu or 27.50 lb/hr	PSD (BACT)
		CO	0.50 lb/MMBtu	PSD (BACT)
1,100 ppm dry @ 3% O ₂ or 2.4 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD			

		HCl	0.022 lb/MMBtu of heat input or 0.025 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD	
		Hg	0.0000057 lb/MMBtu of heat input or 0.0000064 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD	
Emission Point No.	Description	Pollutant	Emission limit	Regulation	
B-WW2	125 MMBtu/hr (Teaford) wood waste boiler with multiclone venting to a dry ESP	PM	0.20 gr/dscf @ 50% EA	ADEM Admin. Code r. 335-3-4-.08(2)(d)	
			0.030 lb/MMBtu	40 CFR Part 60, Subpart Db	
			0.037 lb/MMBtu of heat input or 0.043 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD	
			PM Emissions below combined with 001		
			4.04 lb/hr (as TSP)	PSD (SMS)	
			2.99 lb/hr (as PM ₁₀)	PSD (SMS)	
			2.62 lb/hr (as PM _{2.5})	PSD (SMS)	
		CO	0.30 lb/MMBtu	PSD (BACT)	
			1,500 ppm dry @3 % O ₂ or 1.4 lb/MMbtu of steam output	40 CFR Part 63 Subpart DDDDD	
		SO ₂	4.0 lb/MMBtu	ADEM Admin. Code R. 335-3-5-.01 (SIP)	
NOX	0.22 lb/MMBtu or 27.50 lb/hr	PSD (BACT)			
HCl	0.022 lb/MMBtu of heat input or 0.025 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD			

		Hg	0.000057 lb/MMBtu of heat input or 0.000064 lb/MMBtu of steam output	40 CFR Part 63 Subpart DDDDD
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Emission Unit Nos. 001 (Wellons) and 003 (Teaford)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
1. <u>Applicability</u>	
(a) These boilers are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
(b) Both units are subject to the applicable requirements of Standards of Performance for New Stationary Sources, General Provisions, 40 CFR Part 60, Subpart A [adopted by reference at ADEM Admin. Code r. 335-3-10-.02(1)], and to the Standards of Performance for New Stationary Sources, Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Db	ADEM Admin Code r. 335-3-10-.02(2)(b)]
(c) This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))".	ADEM Admin. Code r. 335-3-14-.04
(d) The permittee shall comply with the applicable requirements as listed in the National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD [adopted by reference at ADEM Admin. Code r. 335-3-11-.06(107)], and to the NESHAP General Provisions, 40 CFR Part 63, Subpart A, as provided in 40 CFR §63.7565 and Table 10 of Subpart DDDDD. The permittee shall be in compliance with these standards upon startup.	ADEM Admin. Code r. 335-3-11-.06[107]
(1) The permittee has determined that Boiler No. 001 (Wellons boiler) is classified as a Fuel cell designed to burn biomass/bio-based solids.	40 CFR §63.7499(g)
(2) The permittee has determined that the Boiler No. 003 (Teaford boiler) is classified as a Stoker/sloped grate/other unit designed to burn wet biomass/bio-based solids	40 CFR §63.7499(i)
2. <u>Emission Standards</u>	
(a) The permittee must conduct all applicable performance tests according to 40 CFR §63.7520 on an annual basis except as specified below:	40 CFR §63.7515
(1) Annual performance tests must be completed no more than 13 months after the previous performance test	

Federally Enforceable Provisos	Regulations
<p>(2) If performance tests for a given pollutant for at least 2 consecutive years show that your emissions are at or below 75 percent of the emission limit for the pollutant and there are no changes to the operation or air pollution control equipment that could increase emissions,</p> <p>(i) you may choose to conduct performance tests for the pollutant every third year.</p> <p>(ii) each such performance test must be conducted no more than 37 months after the previous performance test.</p> <p>(iii) If a performance test shows emissions exceeded the emission limit or 75 percent of the emission limit for a pollutant, the permittee must conduct annual performance tests for that pollutant until all performance tests over a consecutive 2-year period meet the required level (at or below 75 percent of the emission limit).</p>	<p>40 CFR §63.7515(b) and (c)</p>
<p>(b) During compliance testing the highest hourly average operating load, as measured by steam production in lb/hr, shall be monitored for establishing operating limits for each boiler.</p>	<p>40 CFR 63 Subpart DDDDD Table 4</p>
<p>(c) The permittee shall conduct a tune-up every five (5) years of the boiler to demonstrate continuous compliance as specified, but not limited to, below:</p> <p>(1) the burner, and clean or replace any components of the burner as necessary</p> <p>(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available</p> <p>(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly</p> <p>(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject</p>	<p>40 CFR §63.7540(a)(10)</p>

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<p>(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and</p>	
<p>(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in 40 CFR §63.7540 (10)(vi)(a) through (C).</p>	
<p>(7) The permittee shall conduct each tune-up specified in §63.7540(a)(12) which must be no more than 60 months after the previous tune-up.</p>	40 CFR §63.7515(d)
<p>(d) The permittee must comply with the standards that apply at all times the affected unit is operating, except during periods of startup and shutdown. During the periods of startup and shutdown, the permitted must comply with items 5 and 6 of Table 3 of 40 CFR 63, Subpart DDDDD.</p>	40 CFR §63.7500(f)
<p>(e) The permittee, for each applicable emission limit for Boiler No. 001 and Boiler No. 003, and chooses to comply using definition of “startup” in 40 CFR §63.7575, must develop and implement a written startup and shutdown plan (SSP) according to the requirements in Table 3.</p>	40 CFR §63.7505(e)
<p>(f) If the permittee writes and maintains an SSP, it must be made available upon request for inspection.</p>	
<p>(g) The particulate matter emission limits and opacity limits under 40 CFR §60.43b apply at all times, except during periods of startup, shutdown, or malfunction</p>	40 CFR §60.43b(g)
<p>(h) The Permittee must maintain opacity to less than or equal to 10% opacity or the highest hourly average opacity reading measured during the performance test run demonstrating compliance with the particulate matter emission limitation (daily block average).</p>	40 CFR 63 Subpart DDDDD Table 4
<p>(i) The permittee shall not discharge into the atmosphere gases that exhibit greater than 20% opacity (6-minute average), except for one period per hour of not more than 27% opacity</p>	40 CFR §60.43b(f)
<p>(j) The Permittee shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period from this boiler. At no time shall the permittee discharge a 6-minute average opacity of particulate emissions greater than 40% from this boiler.</p>	ADEM Admin. Code r. 335-3-4-.01
<p>(k) Each boilers shall not emit particulate matter (as TSP) greater than 0.20 gr/dscf, adjusted to fifty percent (50%) excess air.</p>	ADEM Admin. Code r. 335-3-4-.08(2)(d)

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(l) Boiler No. 001 is limited to a particulate emission rate of 0.10 lb/MMBtu.	40 CFR §60.43b(h)(3)
(m) Boiler No. 003 is limited to a particulate emission rate of 0.030 lb/MMBtu.	40 CFR §60.43b(h)(1)
<p>(n) The permittee shall not cause or allow the aggregate emissions from Boiler No. 001 and Boiler No. 003 to exceed any of the following limitations:</p> <p>(1) Total suspended particulates (TSP): 4.04 lb/hr.</p> <p>(2) Particulate matter <10 µm in aerodynamic diameter (PM₁₀): 2.99 lb/hr.</p> <p>(3) Particulate matter <2.5 µm in aerodynamic diameter (PM_{2.5}): 2.62 lb/hr.</p>	ADEM Admin. Code r. 335-3-14-.04
(o) These boilers are limited to a sulfur dioxide emission rate of 4.0 lb/MMBtu heat input.	ADEM Admin Code r. 335-3-5-.01(b)
(p) The permittee shall not cause or allow the emissions of nitrogen oxides (NO _x) from either Boiler No. 001 or Boiler No. 003 to exceed 0.22 lb/MMBtu or 27.50 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
<p>(q) In accordance with the requirements as listed in 40 CFR §63.7500(a), Table 2 of Subpart DDDDD for Boiler No. 001, the permittee shall comply with the following emission limits (PM, HCl, and Hg) and work practice standard (CO):</p> <p>(1) Particulate Matter (PM): 0.02 lb/MMBtu of heat input; or 0.055 lb/MMBtu of steam output</p> <p>(2) Hydrogen Chloride (HCl): 0.022 lb/MMBtu of heat input; or 0.025 lb/MMBtu of steam output</p> <p>(3) Mercury (Hg): 0.0000057 lb/MMBtu of heat input; or 0.0000064 lb/MMBtu of steam output</p> <p>(4) Carbon Monoxide (CO): 1,100 ppm dry corrected to 3% O₂; or 2.4 lb/MMBtu of steam output</p>	
<p>(r) In accordance with the requirements as listed in 40 CFR §63.7500(a), Table 2 of Subpart DDDDD for Boiler No. 003, the permittee shall comply with the following emission limits (PM, HCl, and Hg) and work practice standard (CO):</p> <p>(1) Particulate Matter (PM): 0.037 lb/MMBtu of heat input; or 0.043 lb/MMBtu of steam output</p> <p>(2) Hydrogen Chloride (HCl): 0.022 lb/MMBtu of heat input; or 0.025 lb/MMBtu of steam output</p> <p>(3) Mercury (Hg): 0.0000057 lb/MMBtu of heat input; or 0.0000064 lb/MMBtu of steam output</p> <p>(4) Carbon Monoxide (CO): 1,500 ppm dry corrected to 3 % O₂; or 1.4 lb/MMBtu of steam output</p>	

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(s) The permittee shall not cause or allow the emissions of carbon monoxide (CO) from Boiler No. 001 to exceed 0.50 lb/MMBtu,	ADEM Admin. Code r. 335-3-14-.04
(t) The permittee shall not cause or allow the emissions of carbon monoxide (CO) from Boiler No. 003 to exceed 0.30 lb/MMBtu.	ADEM Admin. Code r. 335-3-14-.04
(u) The permittee shall operate each boiler in accordance with good combustion practices, which include but may not be limited to the following: <ol style="list-style-type: none"> <li data-bbox="284 632 1112 667">(1) Good fuel/air mixing in the combustion zone; <li data-bbox="284 695 1112 751">(2) High temperatures and low oxygen levels in the primary combustion zone; <li data-bbox="284 785 1112 877">(3) Overall excess oxygen levels high enough to complete combustion while maximizing boiler thermal efficiency; and <li data-bbox="284 909 1112 940">(4) Sufficient residence time to complete combustion. 	ADEM Admin. Code r. 335-3-14-.04
(v) The permittee shall install, maintain, and properly operate an oxygen trim system on each boiler.	ADEM Admin. Code r. 335-3-14-.04
(w) The permittee shall install, calibrate, maintain, and operate an oxygen (O ₂) meter in each boiler's effluent to measure the %O ₂ . The meter shall be calibrated at least once every 12 months	ADEM Admin. Code r. 335-3-14-.04
(x) This unit shall be restricted to burning untreated wood waste only, with no permitted back-up fuel.	ADEM Admin. Code r. 335-3-14-.04
(y) The permittee shall record and maintain records of the amounts of each fuel combusted during each day and summary for each calendar month.	40 CFR §60.49b(d)
3. <u>Compliance and Performance Test Methods and Procedures</u>	
(a) The permittee shall conduct an annual inspection on each boiler. The first inspection shall be conducted within 12 months of initial startup. Subsequent inspections shall be conducted at intervals of not less than 10 months but not greater than 14 months, unless an extension of time is granted by the Air Division. Each inspection shall include, at a minimum: <ol style="list-style-type: none"> <li data-bbox="284 1728 1112 1785">(1) Inspect all the fuel cells, and clean or replace any components of the system as necessary; and <li data-bbox="284 1816 1112 1848">(2) Inspect and test the oxygen trim system on the boiler. 	ADEM Admin. Code r. 335-3-1-.05

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(b) The permittee shall conduct annual compliance testing for carbon monoxide, particulate, and nitrogen oxides at intervals not less than 10 months but not more than 14 months following the date of the previous compliance testing.	ADEM Admin. Code r. 335-3-1-.05
(c) Carbon Monoxide emissions shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 10.	ADEM Admin. Code r. 335-3-1-.05
(d) The particulate emission rate shall be measured in accordance with the following:	ADEM Admin. Code r. 335-3-1-.05
(1) Total suspended particulates (TSP): EPA Reference Method 5 or 17 found at 40 CFR Part 60, Appendix A.	
(2) Particulate matter <10 µm in aerodynamic diameter (PM ₁₀): EPA Reference Method 5, 17, or 201A and EPA Reference Method 202 found at 40 CFR Part 60, Appendix A (Methods 5 and 17) and 40 CFR Part 51, Appendix M (Methods 201A and 202).	
(3) Particulate matter <2.5 µm in aerodynamic diameter (PM _{2.5}): EPA Reference Method 5, 17, or 201A and EPA Reference Method 202 found at 40 CFR Part 60, Appendix A (Methods 5 and 17) and 40 CFR Part 51, Appendix M (Methods 201A and 202).	
(e) Nitrogen oxide emissions shall be measured in accordance with Method 7E at 40 CFR Part 60, Appendix A, or an alternative test method provided prior approved by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05
(f) Following annual compliance testing, if the results indicate that the nitrogen oxides emission rate from the Boiler Nos. 1 or 3 exceeds 90 percent of the allowable rate stated in Proviso No. 2p , the permittee shall install and maintain a continuous emission monitoring system (CEMS) on the boiler that exceeded 90 percent and continuously record the output of the system. The CEMS shall be installed within 6 months of submittal of the performance test results. The CEMS shall meet the requirements in 40 CFR 60, Appendix B, Performance Specification 2, and 40 CFR 60 Appendix F, Quality Assurance Procedures.	ADEM Admin. Code r. 335-3-14-.04
(g) If testing is required, the sulfur dioxide emission rate shall be measured in accordance with Method 6 or 6C at 40 CFR Part 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
(h) Opacity of stack emissions shall be determined in accordance with Method 9 at 40 CFR Part 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
(i) A properly maintained and operated device will be utilized to measure the steam flow from the boiler.	ADEM Admin. Code r. 335-3-16-.05(c)

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<p>(j) A properly installed, calibrated, maintained, and operated continuous emission monitor shall be utilized to measure the opacity of the emissions discharged into the atmosphere and record the output of the system.</p>	<p>40 CFR Part 60 Subpart D_b</p>
<p>(k) If the permittee determines to conduct a compliance test for Total Select Metals (TSM) emission rate from this unit, it shall be determined in accordance with Method 29 at 40 CFR Part 60, Appendix A. An alternate method may be utilized provided prior approval is granted by the Air Division.</p>	<p>ADEM Admin. Code r. 335-3-11-.06[107]; 40 CFR 63 Subpart DDDDD Table 5</p>
<p>(l) If the permittee determines to conduct a compliance test for Hydrogen Chloride (HCl) emission rate from this unit, it shall be determined in accordance with Method 26 or 26A at 40 CFR Part 60, Appendix A. An alternate method may be utilized provided prior approval is granted by the Air Division.</p>	<p>ADEM Admin. Code r. 335-3-11-.06[107]; 40 CFR 63 Subpart DDDDD Table 5</p>
<p>(m) If the permittee determines to conduct a compliance test for Mercury (Hg) emission rate from this unit, it shall be determined in accordance with Method 29, 30A or 30B at 40 CFR Part 60, Appendix A. An alternate method may be utilized provided prior approval is granted by the Air Division.</p>	<p>ADEM Admin. Code r. 335-3-11-.06[107]; 40 CFR 63 Subpart DDDDD Table 5</p>
<p>(n) If the permittee determines to use fuel analysis for compliance with Total Select Metals, Hydrogen Chloride (HCl), or Mercury, it shall be determined using the procedures stated in 40 CFR §63.7521 and Subpart DDDDD Table 6 as follows:</p> <ol style="list-style-type: none"> (1) Develop a site specific fuel monitoring plan; (2) obtain a minimum of three (3) composite fuel samples (3) prepare each composite sample accordingly; and (4) you must determine the concentration of pollutants in the fuel (TSM, HCl, and Hg) and report the results in pounds per million Btu (lb/MMBtu). 	<p>40 CFR §63.7515(e)</p>
<p>4. <u>Emission Monitoring</u></p>	
<p>(a) The permittee shall monitor and record the %O₂ in each boiler's effluent at 15-minute intervals. At the end of each hour, the permittee shall calculate the 3-hour rolling average %O₂ for the previous 3-hour period for each boiler. The permittee shall install an alarm sufficient to alert the appropriate personnel that an excursion from the monitoring range has occurred. Until such time as a different monitoring range is established through emission testing or another reliable method, the monitoring range indicating good combustion is considered to be between 2% and 12% oxygen in the boilers' effluents.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>

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(b) If the 3-hour rolling average %O ₂ deviates from the monitoring range, the permittee shall initiate corrective action to return the unit to normal operation as soon as practicable but no longer than 24 hours after detecting the excursion.	ADEM Admin. Code r. 335-3-14-.04
(c) The permittee shall calibrate, maintain, and operate a continuous opacity monitoring system (COMS) to measure opacity emissions and record the output of the systems. The permittee shall follow the applicable procedures under 40 CFR §60.13 for the installation, evaluation, and operation of the continuous monitoring system. The span value for a continuous monitoring system for measuring opacity shall be between 60 and 80 percent	40 CFR §60.48b(a)
(d) The permittee must maintain a site specific monitoring plan according to the paragraphs listed in 40 CFR §63.7505(d)(1) through (7) for the use of any COMS.	40 CFR §63.7505
(e) The permittee must operate, certify and maintain each COMS according to the procedures in §63.7525(c) (1) through (7) in this section. This must be done by the compliance date specified in §63.7495.	40 CFR §63.7525(c)
5. <u>Recordkeeping and Reporting Requirements</u>	
(a) The permittee shall record and maintain records of the amounts of fuel combusted during each day and monthly summary.	40 CFR §60.49b(d)
(b) All required records, which includes but not limited to the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment, shall be maintained in a permanent form on-site and available for inspection for at least five (5) years from the date of generation of each record.	ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.7560
(c) The permittee shall comply with the applicable notification, reporting, and recordkeeping requirements specified in 40 CFR §60.7, 40 CFR §60.49b, and 40 CFR §63.7545.	
(d) The permittee shall report the results of performance tests and the associated fuel analyses within 60 days after the completion of the performance tests. This report must also verify that the operating limits for each boiler or process heater have not changed or provide documentation of revised operating limits established according to §63.7530 and Table 7 to 40 CFR 63 Subpart DDDDD, as applicable. The reports for all subsequent performance tests must include all applicable information required in §63.7550	40 CFR §63.7515(f)

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(e) The permittee shall maintain a record of each annual boiler inspection, to include the dates conducted, the results of each action taken, and the nature of any adjustments made.	ADEM Admin. Code r. 335-3-16-.05(c)2
(f) The permittee shall maintain a record of the date and results of the calibration of each O ₂ meter performed.	
(g) For each boiler, the permittee shall maintain records of the instantaneous %O ₂ data readings and the calculated 3-hour rolling averages (including dates and times) and shall record the date, time, and nature of each corrective action taken when an excursion was detected.	ADEM Admin. Code r. 335-3-16-.05(c)2
(h) The permittee shall maintain all required records in a permanent form suitable for inspection and shall be readily available for inspection upon request. The permittee shall retain each record for a period of 5 years from the generation of each record.	ADEM Admin. Code r. 335-3-16-.05(c)
(i) The permittee shall notify the Air Division in writing within two working days of determining that an exceedance of an emission limitation has occurred. The notification shall indicate the date, time, duration, nature, and magnitude of the exceedance as well as the corrective actions required to return the boiler or control device to normal operation.	ADEM Admin. Code r. 335-3-16-.05(c)3
(j) Records of daily fuel usage shall be kept in a permanent form suitable for inspection. The records shall be retained for at least five (5) years from the date of generation and available upon request.	40 CFR Part 60 Subpart D _b
(k) A written report shall be submitted no later 60 days after the end of each semiannual reporting period (January 1-June 30 and July 1-December 31) to the Air Division and EPA. The report should include the following: Exceedances of opacity specifications as defined by 40 CFR Part 60 Subpart D _b , certification of fuel combusted during the reporting period, and monitoring system performance as defined by 40 CFR §60.7, the cause of the exceedance, and corrective actions taken.	40 CFR Part 60 Subpart D _b ' and 40 CFR §60.7
(l) A Semiannual Monitoring Report (SMR), as required by General Permit Proviso No. 21(a) and 40 CFR part 60 Appendix A, shall be submitted no later than 60 days after the end of each semiannual reporting period (January 1 st – June 30 th and July 1 st – December 31 st). The report shall include the following information for Boiler Nos. 001 and 003 :	ADEM Admin. Code r. 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
<ol style="list-style-type: none"> 1) A statement describing the emission monitoring that was required during the reporting period, whether all emission monitoring was completed as required, and if not, the date(s) and reasons(s) why the monitoring was not performed; 2) A statement as to whether the annual inspection of the control device was accomplished during the reporting period, and if so, the date and results of the inspection(s); and 3) The date(s), nature, and results of any corrective action taken when (1) a deviation from an emission monitoring parameter was observed or (2) an inspection of the control device indicated that cleaning or emission-related maintenance was needed. 	
<p>(m) A Semiannual Compliance Report (SCR), shall be submitted no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). The report shall include the following information for Boiler Nos. 001 and 003:</p>	<p>§63.7550(a) (b) and (c)</p>
<ol style="list-style-type: none"> (1) If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards for periods of startup and shutdown in Table 3 to 40 CFR 63 Subpart DDDDD that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and (2) If you have a deviation from any emission limitation (emission limit and operating limit) where you are not using a CMS to comply with that emission limit or operating limit, or a deviation from a work practice standard for periods of startup and shutdown, during the reporting period, the report must contain the information in §63.7550(d); and (3) If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in §63.8(c)(7), or otherwise not operating, the report must contain the information in §63.7550(e) 	<p>40 CFR §63 Subpart DDDDD, Table 9</p>

**Emission Unit Nos. 011, 012, 013, 014, 015, 016 and 017 (Lumber Dry Kilns)
Summary Page**

Unit No.	Description
011	116 MBF Lumber Dry Kiln #1 (DK-1)
012	116 MBF Lumber Dry Kiln #2 (DK-2)
013	84 MBF Lumber Dry Kiln #3 (DK-3)
014	93 MMBF/yr Continuous, Dual Path Indirect-fired Kiln (CIK #4)
015	143 MBF Lumber Dry Kiln #5 (DK-5)
016	93 MMBF/yr Continuous, Dual Path Indirect-fired Kiln (CIK #6)
017	93 MMBF/yr Continuous, Dual Path Indirect-fired Kiln (CIK #7)

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation	
DK-1	Dry kiln #1-3, & 5 roof vents	PM	E=17.31(P) ^{0.16}	ADEM Admin. Code r. 335-3-4-.04 (SIP)	
DK-2		93 MMBF/yr Continuous Dual Path, Indirect-Fired Kiln #4, #6 & #7	VOC	5.48 lbs/MBF	PSD/BACT
DK-3			PM	E=17.31(P) ^{0.16}	ADEM Admin. Code r. 335-3-4-.04 (SIP)
DK-5			VOC	4.57 lbs/MBF	PSD/BACT
CIK-4	93 MMBF/yr Continuous Dual Path, Indirect-Fired Kiln #4, #6 & #7	PM	E=17.31(P) ^{0.16}	ADEM Admin. Code r. 335-3-4-.04 (SIP)	
CIK-6		VOC	4.57 lbs/MBF	PSD/BACT	
CIK-7					

Emission Unit Nos. 011, 012, 013, 014, 015, 016, and 017 (Lumber Dry Kilns)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."</p> <p>(b) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration (PSD))".</p> <p>(c) These units are subject to the applicable requirements of 40 CFR 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products, and the applicable requirements of 40 CFR 63, Subpart A, General Provisions as provided in Table 10 to Subpart DDDD.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-11-.06(81); 40 CFR 63, Subpart DDDD</p>
<p>2. <u>Emission Standards</u></p> <p>(a) No person shall cause or permit the emission of particulate matter in any one hour from each unit in excess of the amount determined by the following equation:</p> $E = 17.31P^{0.16} \quad (P > 30 \text{ tons per hour})$ <p>where E = Emissions in pounds per hour</p> <p>P = Process weight per hour in tons per hour.</p> <p>(b) The permittee shall not cause or allow the volatile organic compounds from DK-1, DK-2, DK-3, and DK-5 to exceed 5.48 lb/MBF as measured as terpenes.</p> <p>(c) The permittee shall not cause or allow the VOC emissions from CIK #4, CIK #6, and CIK #7 to exceed 4.57 lb/MBF (as VOC)</p>	<p>ADEM Admin. Code r. 335-3-4-.04(1)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) If testing is required, the particulate emission rate shall be measured in accordance with Method 5 at 40 CFR Part 60, Appendix A. An alternative method may be used if approved in advance by the Air Division.</p>	<p>ADEM Admin. Code r. 335-3-1-.04</p>

Federally Enforceable Provisos	Regulations
<p>(b) If testing is required, the volatile organic compound emission rate shall be measured in accordance with Method 18 or 25A at 40 CFR 60, Appendix A. An alternative method may be used if approved in advance by the Air Division.</p> <p>(c) The permittee shall utilize proper maintenance and operating practices as recommended by the manufacturer for CIK #4, CIK #6, and CIK #7, which include but may not be limited to the following:</p> <p>(1) Proper Operating Practices:</p> <p>(i) Entering air temperature for the kiln shall not exceed 350°F.</p> <p>(ii) Wet/dry bulb temperature difference shall not exceed 150°F. Wet/dry bulb set points may differ for the various dimensional lumber that is produced.</p> <p>(iii) Utilize proper kiln feed rates, which would be between 1 and 20 feet per hour depending upon the dimensions and moisture content of lumber being dried and other variables such as air flow, weather, time of year, and target moisture content.</p> <p>(2) Proper maintenance practices:</p> <p>(i) The kilns shall be inspected quarterly for mechanical and physical integrity. This includes, but is not limited to, inspecting baffling, wiring, and structure.</p>	<p>ADEM Admin. Code r. 335-3-1-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>4. <u>Emission Monitoring</u></p>	
<p>The permittee shall maintain records documenting its compliance with the proper maintenance and operating practices required by Proviso 3c for the emission unit.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p>	
<p>(a) The permittee shall retain all required records in a permanent form suitable and readily available for inspection for a period of five years from the date of generation of each record.</p>	<p>ADEM Admin. Code r. 335-3-16.05(c)2</p>
<p>(b) If these kilns should exceed an applicable limit at any time, the permittee shall notify the Air Division in writing within two working days of determining that the exceedance occurred.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<p>(c) The Permittee shall submit a Semiannual Monitoring Report for these kilns as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). This report shall include a certification that all proper maintenance and operating practices were accomplished as required during the reporting period, and if not, describe the date and reason any required action was not accomplished.</p> <p>(d) The permittee shall submit an Annual Compliance Certification for these kilns to the Air Division as part of the Annual Compliance Certification required by the permittee's Major Source Operating Permit. This report shall include the following for these kilns:</p> <ol style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification. (2) The compliance status, whether continuous or intermittent. (3) The method(s) used for determining the compliance status of the source, currently, and over the reporting period. (4) Other facts the Department may require to determine the compliance of the source. <p>(e) The compliance certification 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>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

**Emission Unit Nos. 006 and 007 (2 Planer Mills and 2 Cyclones w/2 Baghouses)
Summary Page**

Description: Two (2) planers and two (2) cyclones venting to two (2) baghouses

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
BH-1	Planer Mill #1 and Cyclone with Baghouse	PM	0.21 lb/hr	PSD [SMS]
BH-2	Planer Mill #2 and Cyclone with Baghouse	PM	0.21 lb/hr	PSD [SMS]

Emission Unit Nos. 006 and 007 (2 Planer Mills and 2 Cyclones w/2 Baghouses)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."</p> <p>(b) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))".</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>2. <u>Emission Standards</u></p> <p>(a) Particulate emissions from these units shall not exceed 0.21 pound per hour.</p> <p>(b) Visible emissions from these units shall not exceed 10% opacity.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) If testing is required, the particulate emission rate shall be measured in accordance with Method 5 at 40 CFR Part 60, Appendix A.</p> <p>(b) Opacity of stack emissions shall be determined in accordance with Method 9 at 40 CFR Part 60, Appendix A.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>4. <u>Emission Monitoring</u></p> <p>(a) A properly maintained and operated device will be utilized to measure the pressure differential between the inlet and outlet. The pressure differential will be checked daily to verify that it is within the manufacturer's recommended operating range of 0.3 – 4.0 inches of water. If the pressure differential is outside the manufacturer's recommended operating range, corrective action will be taken within 24 hours.</p> <p>(b) The baghouse shall be observed at least daily to determine if there are any visible emissions. If visible emissions are observed, corrective action will be taken with 24 hours.</p> <p>(c) The baghouse and cyclone shall be inspected for proper operation and cleaned at least annually but more frequently when visible emissions are observed or the pressure differential is outside the manufacturer's recommended operating range.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)1</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)1</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)1</p>

Federally Enforceable Provisos	Regulations
<p>(d) If the permittee determines through emission testing or other reliable information that compliance can be reasonably assured at an operating range other than that specified in Condition 4(a) above, the permittee shall submit a notification of the fact to the Air Division within 30 days of determining that an alternate operating range should be established. The notification shall include the data supporting the validity of the newly established operating range.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p>	
<p>(a) Records, including dates and time, visual observation results, pressure differential, inspections, corrective action taken, and maintenance performed shall be available for inspection for five (5) years from the date of generation.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)2</p>
<p>(b) The Permittee shall submit a Semiannual Monitoring Report as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). The report should include the following:</p> <ol style="list-style-type: none"> (1) The dates visible emissions were observed from the baghouse exhaust, cause of the problem, and the corrective action taken. (2) The dates the pressure differential was outside the manufacturer’s recommended operating range, cause of the problem, and the corrective action taken. (3) The dates the required annual inspection and cleaning of the cyclone and baghouse was completed. 	<p>ADEM Admin. Code r. 335-3-16-.05(c)3</p>

Emission Unit No. 018: Wood residual receiving, handling, processing and storage operations that include:

Summary Page

Description: Sawmill operations [material handling conveyors, screens, diverter, surge hopper, feeder, and 35 TPH Hammermill #1 (HM-1)]

Timber mill operations [material handling conveyors, screen, diverter, surge and dump hopper, and 10 TPH Hammermill #2 (HM-2)]

Three boiler fuel storage silos (SS-1, SS-2, and SS-3)

Truck receiving operations [truck dump and hoppers, material handling conveyor, and screen]

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
HM-1	Sawmill Operations	PM	0.02 lb/ton (as TSP)	PSD [SMS]
HM-2	Timbermill Operations		0.011 lb/ton (as PM ₁₀)	
			0.0055 lb/ton (as PM _{2.5})	
SS-1	Boiler fuel silos	PM	0.025 lb/ton (as TSP)	PSD [SMS]
SS-2			0.0063 lb/ton (as PM ₁₀)	PSD [SMS]
SS-3			0.0011 lb/ton (as PM _{2.5})	PSD [SMS]
	Truck receiving operations	PM	NA	NA

Emission Unit No. 018: Wood residual receiving, handling, processing and storage operations
Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."</p> <p>(b) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))".</p> <p>2. <u>Emission Standards</u></p> <p>(a) 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%.</p> <p>(b) The permittee shall not cause or allow the emission of particulate matter (as TSP) in any one hour from these processes in excess of the amount determined by the following applicable equation:</p> $E = 3.59P^{0.62} \quad (P < 30 \text{ TPH})$ $E = 17.31P^{0.16} \quad (P \geq 30 \text{ TPH})$ <p>where E = Emissions in pounds per hour</p> <p>P = Process rate in tons per hour</p> <p>(c) The permittee shall not cause or allow emissions from Hammermill #1 or #2 to exceed any of the following limitations:</p> <p>(1) Total suspended particulates (TSP): 0.02 lb/ton of material processed.</p> <p>(2) Particulate matter <10 μm in aerodynamic diameter (PM₁₀): 0.011 lb/ton of material.</p> <p>(3) Particulate matter <2.5 μm in aerodynamic diameter (PM_{2.5}): 0.0055 lb/ton of material</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code. r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-4-.04(1)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<p>(d) The permittee shall not cause or allow emission from boiler fuel storage silos to exceed any of the following limitations:</p> <ul style="list-style-type: none"> (1) Total suspended particulates (TSP): 0.025 lb/ton of material processed. (2) Particulate matter <10 µm in aerodynamic diameter (PM₁₀): 0.0063 lb/ton of material processed. (3) Particulate matter <2.5 µm in aerodynamic diameter (PM_{2.5}): 0.0011 lb/ton of material processed. 	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>(a) If testing is required, the particulate emission rate shall be measured in accordance with the following test methods:</p> <ul style="list-style-type: none"> (1) Total suspended particulates (TSP) by EPA Reference Method 5 or 17 found at 40 CFR Part 60, Appendix A. (2) Particulate matter <10 µm in aerodynamic diameter (PM₁₀) by EPA Reference Method 5, 17, or 201A found at 40 CFR Part 60, Appendix A (Methods 5 and 17) and 40 CFR Part 51, Appendix M (Method 201A). (3) Particulate matter <2.5 µm in aerodynamic diameter (PM_{2.5}): by EPA Reference Method 5, 17, or 201A found at 40 CFR Part 60, Appendix A (Methods 5 and 17) and 40 CFR Part 51, Appendix M (Method 201A). 	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>(b) Opacity of stack emissions shall be determined in accordance with Method 9 at 40 CFR Part 60, Appendix A.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>4. <u>Emission Monitoring</u></p>	
<p>(a) At least once per week during daylight hours, the permittee shall observe the emission points for the hammermills and storage silos for greater than normal visible emissions while the respective processes are operating. If greater than normal emissions are observed, the permittee shall initiate corrective action as soon as practicable but no longer than 24 hours after the observation. The permittee shall conduct an additional observation for greater than normal visible emission to confirm that the process has returned to normal operations.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)1</p>

Federally Enforceable Provisos	Regulations
<p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall record the date, time, and result of each observation for greater than normal emissions and shall record the date, time, and nature of each corrective action taken</p> <p>(b) The permittee shall maintain all required records in a permanent form suitable for inspection and shall be readily available for inspection upon request. The permittee shall retain each record for a period of 5 years from the generation of each record.</p> <p>(c) The permittee shall notify the Air Division in writing within two working days of determining that an exceedance of an emission limitation occurred.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)2</p>

Emission Unit No. 004 (37.66 MMBtu/hr Natural Gas-Fired Boiler)

Summary Page

Description: 37.66 MMBtu/hr Natural Gas-fired Boiler with flue gas recirculation

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
NG-1	37.66 MMBtu/hr NG-fired boiler	PM	$E = 1.38(H)^{0.44}$	ADEM Admin. Code r. 335-3-4-.03(1)

Emission Unit No. 004 (37.66 MMBtu/hr Natural Gas-fired boiler)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
1. <u>Applicability</u>	
(a) This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
(b) This unit is subject to the applicable requirements of Standards of Performance for New Stationary Sources, General Provisions, 40 CFR Part 60, Subpart A (incorporated)	ADEM Admin. Code r. 335-3-10-.02(1)
(c) Standards of Performance for New Stationary Sources, Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart D _c (incorporated).	ADEM Admin Code r. 335-3-10-.02(2)(c)
(d) The permittee shall comply with the applicable requirements as listed in the National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD [adopted by reference at ADEM Admin. Code r. 335-3-11-.06(107)], and to the NESHAP General Provisions, 40 CFR Part 63, Subpart A, as provided in 40 CFR §63.7565 and Table 10 of Subpart DDDDD. The permittee shall be in compliance with these standards upon startup. The permittee has determined that the Boiler No. 004 is by definition a Unit designed to burn gas 1 fuels.	ADEM Admin. Code r. 335-3-11-.06[107] 40 CFR §63.7499(1)
2. <u>Emission Standards</u>	
(a) The permittee must demonstrate initial compliance according to applicable requirements listed in 40 CFR §63.7510.	
(b) The permittee must comply with the applicable standards at all times the affected unit is operating, except during periods of startup and shutdown. During the periods of startup and shutdown, the permittee must comply with items 5 and 6 of Table 3 of 40 CFR 63, Subpart DDDDD.	40 CFR §63.7500(f)
(c) The particulate emission rate from this unit (as measured in accordance with 40 CFR Part 60, Appendix A, Method 5) shall not exceed the amount determined by the use of the following equation:	ADEM Admin. Code r. 335-3-4-.03(1)
$E=1.38(H)^{-0.44}$ <p>Where: E=Emissions in pounds per MMBtu heat input H=Heat input in MMBtu/hr</p>	

Federally Enforceable Provisos	Regulations
<p>(d) The permittee shall not discharge particulate emissions 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%.</p> <p>(e) Opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.</p> <p>(f) In accordance with ADEM Admin. Code r. 335-3-5-.01(b), the sulfur dioxide emission rate from this unit shall not exceed 4.0 lb/MMBtu of heat input.</p>	<p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-5-.01(b)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>(a) The permittee shall conduct a tune-up of the boiler to demonstrate continuous compliance. as specified, but not limited to, below:</p> <ol style="list-style-type: none"> (1) the burner, and clean or replace any components of the burner as necessary (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in 40 CFR §63.7540 (10)(vi)(a) through (C). 	<p>§63.7540(a)(10)</p>
<p>(b) Each tune-up, specified in §63.7540(a)(12), must be conducted no more than 13 months after the previous tune-up.</p>	<p>§63.7515(d)</p>

Federally Enforceable Provisos	Regulations
<p>4. Recordkeeping and Reporting Requirements</p> <p>(a) The permittee shall record and maintain records of the amount of natural gas combusted. The records shall be kept in a permanent form suitable for inspection and shall be maintained for a period of five (5) years from the date of such record.</p> <p>(b) The permittee shall comply with the applicable notification, reporting, and recordkeeping requirements specified in 40 CFR §§60.7 and 60.48c.</p> <p>(c) The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). The report shall include the following information for this emission unit:</p> <p>(1) A statement describing the emission monitoring that was required during the reporting period, whether all emission monitoring was completed as required, and if not, the date(s) and reasons(s) why the monitoring was not performed.</p> <p>(d) The permittee shall comply with the applicable notification requirements as listed in 40 CFR §63.7545 and Subpart A of 40 CFR Part 63; the reporting requirements as listed in 40 CFR §63.7550 and Table 9 of Subpart DDDDD; and the recordkeeping requirements as listed in 40 CFR §63.7555 and §63.7560</p> <p>(e) The permittee shall submit an Annual Compliance Report (ACR), no later than 60 days after the end of each reporting period (January 1st – December 31st) for this unit. The report shall include the following information for this unit:</p> <p>(1) Company and Facility name and address;</p> <p>(2) Process unit information, emissions limitations, and operating parameter limitations;</p> <p>(3) Date of report and beginning and ending dates of the reporting period;</p> <p>(4) Include the date of the most recent tune-up for this unit subject to only the requirement to conduct an annual tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually period and was delayed until the next scheduled or unscheduled unit shutdown;</p>	<p>40 CFR §60.48c(g)(1), (2), or (3),</p> <p>40 CFR§63.7560</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>40 CFR §63.7550(b) and (c)(1)</p> <p>40 CFR §63.7550(c)(5)(i)</p> <p>40 CFR §63.7550(c)(5)(ii)</p> <p>40 CFR §63.7550(c)(5)(ii)</p> <p>40 CFR §63.7550(c)(5)(xiv)</p>

Federally Enforceable Provisos	Regulations
(5) For each instance of startup or shutdown include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).	40 CFR §63.7550(c)(5)(xvii)

Emission Unit No. 019 (Emergency Engines)

Summary Page

Description: 232.36 bHp Perkins Compression Ignition Diesel-fired Emergency Engine (ENG1) (EU019-1)

84.42 bHp Perkins Compression Ignition Diesel-fired Emergency Engine (ENG2) (EU019-2)

84.42 bHp Perkins Compression Ignition Diesel-fired Emergency Engine (ENG3) (EU019-3)

32.03 bHp Perkins Compression Ignition Diesel-fired Emergency Engine (ENG4) (EU019-4)

Permitted Operating Schedule: 8,760 hr/yr

Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
ENG1	232.36 bHp Perkins Compression Ignition Diesel-fired Emergency Engine	PM	0.20 g/KW-hr	ADEM Admin. Code r. 335-10-.02(87) 40 CFR Part 60, Subpart IIII
		CO	3.50 g/KW-hr	
		NMHC+NO _x	4.00 g/KW-hr	
		SO ₂	N/A	N/A
		VOC	N/A	N/A
		HAP	N/A	40 CFR §63.6580
ENG2 & ENG3	84.42 bHp Perkins Compression Ignition Diesel-fired Emergency Engine	PM	0.40 g/KW-hr	ADEM Admin. Code r. 335-10-.02(87) 40 CFR Part 60, Subpart IIII
		CO	5.00 g/KW-hr	
		NMHC+NO _x	4.70 g/KW-hr	
		SO ₂	N/A	N/A
		VOC	N/A	N/A
		HAP	N/A	40 CFR §63.6580
ENG4	32.03 bHp Perkins Compression Ignition Diesel-fired Emergency Engine	PM	0.30 g/KW-hr	ADEM Admin. Code r. 335-10-.02(87) 40 CFR Part 60, Subpart IIII
		CO	5.50 g/KW-hr	
		NMHC+NO _x	7.50 g/KW-hr	
		SO ₂	N/A	N/A
		VOC	N/A	N/A
		HAP	N/A	40 CFR §63.6580

Emission Unit No. 019 (Emergency Engines)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits.”</p> <p>(b) These units are affected sources under 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.</p> <p>(c) These units are subject to the applicable provisions of 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and 40 CFR Part 60, Subpart A as specified in Table 3 to Subpart IIII.</p> <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not cause or allow the sum of emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO_x) to exceed the following for each associated unit:</p> <p>(1) 4.00 g/kW-hr from ENG1</p> <p>(2) 4.70 g/kW-hr from ENG2 or ENG3.</p> <p>(3) 7.50 g/kW-hr from ENG4</p> <p>(b) The permittee shall not cause or allow the emissions of carbon monoxides (CO) to exceed the following for each associated unit:</p> <p>(1) 3.50 g/kW-hr from ENG1</p> <p>(2) 5.00 g/kW-hr from ENG2 or ENG3.</p> <p>(3) 5.50 g/kW-hr from ENG4</p> <p>(c) The permittee shall not cause or allow the emissions of particulate matter (PM) to exceed the following for each associated unit:</p> <p>(1) 0.20 g/kW-hr from ENG1</p> <p>(2) 0.40 g/kW-hr from ENG2 or ENG3.</p> <p>(3) 0.30 g/kW-hr from ENG4</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-11-.06(103); 40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-10-.03(87) and 40 CFR Part 60, Subpart IIII</p> <p>40 CFR §60.4205(b)</p> <p>40 CFR §60.4205(b)</p> <p>40 CFR §60.4205(b)</p>

Federally Enforceable Provisos	Regulations
<p>(d) The permittee shall not purchase any diesel fuel for this unit that does not meet the following per-gallon standards of 40 CFR §80.510(b):</p> <ul style="list-style-type: none"> (1) Sulfur content shall not exceed 15 parts per million (ppm); and (2) Cetane index shall be a minimum of 40 <u>or</u> the aromatic content shall not exceed 35 percent by volume. <p>(e) The permittee shall not cause or allow the smoke emission standard from these units to exceed the following applicable emission standards:</p> <ul style="list-style-type: none"> (1) 20 percent during the acceleration mode; (2) 15 percent during the lugging mode; and (3) 50 percent during the peaks in either the acceleration or lugging modes. <p>(f) The permittee shall not discharge more than one six-minute average opacity greater than 20% during any 60-minute period from these units. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from this unit.</p>	<p>40 CFR §60.4207</p> <p>40 CFR §89.113 and §1039.105</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>The permittee shall operate and maintain the certified stationary CI internal combustion engines according to the manufacturer's emission-related written instructions and shall keep records of conducted maintenance to demonstrate compliance.</p>	<p>40 CFR §60.4206</p>
<p>4. <u>Emission Monitoring</u></p>	
<p>(a) The permittee shall install and operate a non-resettable hour meter on these units.</p>	<p>40 CFR §60.4209</p>
<p>(b) The permittee shall not operate these units except as provided in 40 CFR §60.4211(f)(1) through (f)(3), which include but may not be limited to:</p> <ul style="list-style-type: none"> (i) Emergency situations; (ii) A total of 100 hours per year or less for the purposes allowed by 40 CFR §60.4211(f)(2)(i)-(iii), which include maintenance checks and readiness testing, emergency demand response, and periods where deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency; and 	<p>40 CFR §60.4211(f)</p>

Federally Enforceable Provisos	Regulations
<p>(iii) A total of 50 hours per year or less for the non-emergency situations allowed by 40 CFR §60.4211(f)(3); however, those 50 hours are counted towards the 100 hours per year allowed for maintenance checks and readiness testing, emergency demand response, and voltage or frequency deviations of 5 percent or greater.</p>	
<p>5. Recordkeeping and Reporting Requirements</p>	
<p>(a) The permittee shall keep the following records for these units in accordance with 40 CFR §60.4214. At a minimum, these records shall include:</p> <p>(i) A copy of all notifications submitted to comply with 40 CFR Part 60, Subpart III and all documentation supporting any notification;</p> <p>(ii) For each period of operation the permittee shall record the date and length of operation and the reason the engine was in operation during that time. For periods of operation designated as “emergency operation,” the records shall reflect what classified the operation as emergency. The permittee shall subtotal the total number of hours the engine was operated during a calendar year by the reason the engine was in operation;</p> <p>(iii) Documentation from the manufacturer that the engine is certified to meet the applicable emission standards; and</p> <p>(iv) The dates and nature of maintenance performed.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c) and 40 CFR §60.4214</p>
<p>(b) The permittee shall maintain records of the sulfur content <u>and</u> either the Cetane index or aromatic content of the diesel fuel that is burned in this unit.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c) and 40 CFR §60.4214</p>
<p>(c) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p>
<p>(d) The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual period (July 1st-December 31st and January 1st-June 30th). The report shall include a statement certifying all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>