



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: TAMKO BUILDING PRODUCTS, LLC

FACILITY NAME: TAMKO BUILDING PRODUCTS, LLC

FACILITY/PERMIT NO.: 413-0017

LOCATION: TUSCALOOSA, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, 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

Expiration Date: DRAFT

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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 Rule 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, subdivision, 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>5. <u>Termination for Cause</u></p> | <p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p> |

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| <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> | Rule 335-3-16-.05(h) |
| <p>6. <u>Property Rights</u></p> | |
| <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> | Rule 335-3-16-.05(i) |
| <p>7. <u>Submission of Information</u></p> | |
| <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> | Rule 335-3-16-.05(j) |
| <p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> | |
| <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> | Rule 335-3-16-.05(k) |
| <p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> | |
| <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p> | Rule 335-3-16-.07(a) |
| <p>10. <u>Inspection and Entry</u></p> | |
| <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> | Rule 335-3-16-.07(b) |

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| <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. | |
| <p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. | <p>Rule 335-3-16-.07(c)</p> |
| <p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually by March 1st of each year.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; | <p>Rule 335-3-16-.07(e)</p> |

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| <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <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;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p> | |
| <p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <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>Rule 335-3-16-.13(5)</p> |
| <p>14. <u>Additional Rules and Regulations</u></p> | |

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| <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p> | <p>§22-28-16(d), Code of Alabama 1975, as amended</p> |
| <p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p> | <p>Rule 335-3-1-.07(1), (2)</p> |
| <p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated</p> | <p>§22-28-16(d), Code of Alabama 1975, as amended</p> |

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| <p>and maintained so as to minimize the emission of air contaminants shall be established.</p> <p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p> <p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to reduce fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will be reduced or eliminated. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p> <p>19. <u>Additions and Revisions</u></p> | <p>Rule 335-3-1-.08</p> <p>Rule 335-3-4-.02</p> |

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| Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14. | Rule 335-3-16-.13 and .14 |
| <p>20. <u>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> | Rule 335-3-16-.05(c)2. |
| <p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department 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 Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> | Rule 335-3-16-.05(c)3. |
| <p>22. <u>Emission Testing Requirements</u></p> | |

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| <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> | <p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</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> | |
| <ol style="list-style-type: none"> (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. | <p>Rule 335-3-1-.04</p> |
| <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> | |
| <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p> | |
| <p>23. <u>Payment of Emission Fees</u></p> | |
| <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p> | <p>Rule 335-1-7-.04</p> |

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| 24. <u>Other Reporting and Testing Requirements</u> Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time. | Rule 335-3-1-.04(1) |
| 25. <u>Title VI Requirements (Refrigerants)</u> Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required. | 335-3-16-.05(a) |
| 26. <u>Chemical Accidental Prevention Provisions</u> If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. | 40 CFR Part 68 |

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| <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 will be made readily available for inspection by any or all persons who may request to see it.</p> | <p>Rule 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 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>Rule 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>Rule 335-3-4-.01(1)</p> |
| <p><u>30. Fuel-Burning Equipment</u></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>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p> |
| <p><u>31. 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 Part 335-3-4-.04.</p> | <p>Rule 335-3-4-.04</p> |
| <p><u>32. Averaging Time for Emission Limits</u></p> | |

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| <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>33. <u>Compliance Assurance Monitoring (CAM)</u></p> | <p>40 CFR Part 64</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) Operation of Approved Monitoring</p> | <p>40 CFR Part 64.7</p> |
| <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> | |
| <p>(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> | |
| <p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> | |
| <p>(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore</p> | |

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| <p>operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or 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.</p> | |
| <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a</p> | <p>40 CFR Part 64.8</p> |

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| <p>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.</p> <p>(2) Elements of a QIP:</p> <ul style="list-style-type: none"> a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection. b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate: <ul style="list-style-type: none"> i. Improved preventive maintenance practices. ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <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 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ul style="list-style-type: none"> a. Failed to address the cause of the control device performance problems; or b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable | |

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| <p>in accordance with good air pollution control practices for minimizing emissions.</p> <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) General reporting requirements.</p> <p>a. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.</p> <p>b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>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;</p> <p>ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>iii. A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> | <p>40 CFR Part 64.9</p> |

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| <p>(2) General recordkeeping requirements.</p> <ul style="list-style-type: none"> a. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. <p>(d) Savings Provisions</p> <p>Nothing in this part shall:</p> <ul style="list-style-type: none"> (1) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part. (2) 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 | <p>40 CFR Part 64.10</p> |

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| <p>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>(3) 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>34. <u>Permit Shield</u></p> <p>(a) A permit shield exists under this operating permit in accordance with ADEM Admin. 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 the permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit. McIntosh has identified the Provisos of this Permit for a Permit Shield.</p> <p>(b) Nothing in this permit shall alter or affect the following:</p> <ol style="list-style-type: none"> i. The provisions of Section 303 of the Act (emergency orders) including the authority of the Administrator under that section; ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; iii. The applicable requirements of the Acid Rain program, consistent with Section 408(a) of the Act; iv. The ability of EPA to obtain information from a source pursuant to Section 114 of the Act. | <p>Rule 335-3-16-.10</p> |

Summary Page for Asphalt Storage Tanks

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------------------|--|--------------|---|------------------------------------|
| MON-2 | Three (3) 300,000-gallon Asphalt Storage Tanks (Red EP-11, Blue EP-12, and White EP-13), with fume filter | VOC | N/A | N/A |
| MON-2 | | Formaldehyde | N/A | N/A |
| MON-2 EP-12, and EP-13 | Two (2) 300,000-gallon Asphalt Storage Tanks (Blue EP-12 and White EP-13), with fume filter | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| EP-11 | One (1) 300,000-gallon Asphalt Storage Tank (Red EP-11) when not controlled using MON-2, or when MON-2 is controlling EP-11 only | Opacity | 20% Except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01 |

Provisos for Asphalt Storage Tanks

Federally Enforceable Provisos

Regulation

Applicability

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| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." | Rule 335-3-16-.03 |
| 2. The Red Asphalt Storage Tank (EP-11) is subject to the applicable requirements of 40 CFR 60 Subpart K, "Standards of Performance for "Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Comenced After June 11, 1973, and Prior to May 19, 1978." | 40 CFR Part 60.110 Subpart K |
| 3. The Blue and White Asphalt Storage Tanks (EP-12 and EP-13) are subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture." | 40 CFR Part 60.470 Subpart UU |

Emission Standards

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| 1. The emissions from the Blue and White Asphalt Storage Tanks (EP-12 and EP-13) shall be vented to the fume filter at all times, except during replacement of the fume filter elements preventative maintenance or power failure. | 40 CFR Part 60.470 |
| 2. The exhaust gases from the fume filter common to the White and Blue Asphalt Storage Tanks shall not have an opacity greater than zero (0%) percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. | 40 CFR Part 60.472(c) |
| 3. When controlling only the Red Asphalt Storage Tank (EP-11) MON-2 shall not emit exhaust gases which have an opacity greater than that allowed by General Proviso 29. | ADEM Admin. Code r. 335-3-4-.01 |
| 4. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |

Compliance and Performance Test Methods and Procedures

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| 1. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
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Emission Monitoring

| Federally Enforceable Provisos | Regulations |
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| 1. During each calendar week the Asphalt Storage Tanks are in service, an observation of instantaneous visible emissions from the asphalt tanks shall be completed at least once during each week the Asphalt Storage Tanks are in service to determine opacity. The instantaneous observation must be taken while the emission source is in operation. Records should reflect weeks the asphalt storage tanks are not in service. | Rule 335-3-16-.05(c) |
| 2. If the instantaneous opacity observed is greater than zero (0%) percent for MON-2 (or ten (10%) for the Red Asphalt Storage Tank (EP-11) when emissions are not controlled by the fume filter) or when MON-2 is controlling emissions from EP-11 only, then a visible emission observation shall be conducted within thirty (30) minutes of the initial instantaneous observation in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |
| 3. If the six (6) minute average opacity during the Method 9 visible emissions observation from MON-2 or the White or Blue Asphalt Storage Tanks (EP-12 or EP-13) exceeds zero (0%) percent, then corrective actions to eliminate visible emissions shall be initiated within one (1) hour of the Method 9 observation to identify and correct the malfunction. An additional observation shall be taken to demonstrate that the emissions point no longer has any visible emissions. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |
| 4. If the six (6) minute average opacity during the Method 9 visible emissions observation exceeds ten (10%) percent when the Red Asphalt Storage Tank (EP-11) is in service and emissions are not controlled by the fume filter or when MON-2 is controlling emissions from EP-11 only, then corrective action shall be initiated within one (1) hour of the Method 9 observation to evaluate if any corrective action may be required. An additional observation shall be taken to demonstrate that emissions do not exceed the limits allowed in General Proviso 21. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |

| Federally Enforceable Provisos | Regulations |
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| <p>5. At least once per day when the fume filter is in operation, the pressure differential across the fume filter shall be observed and recorded. If the pressure differential is outside of the manufacturer's recommended operating range, maintenance, inspections, and/or corrective action to bring the pressure differential within the manufacturer's recommended operating range is to be initiated within two (2) hours. Records should reflect weeks that the tanks are not in service.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p><u>Recordkeeping and Reporting</u></p> | |
| <p>1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. Records of the liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period shall be maintained for the Red Asphalt Storage.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective action taken during each visible emissions observation shall be kept in a form suitable for inspection.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>4. Records of readings of the pressure differential across the fume filter shall be kept in a form suitable for inspection. It must be noted each time the fume filter is not operating.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>5. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request.</p> | <p>Rule 335-3-16-.05(c)</p> |

Summary Page for Blowstills

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|-----------------|---|---|
| EP 14 or EP 15 | 32,000 Gallon Blowstill No. 1 and 32,000 Gallon Blowstill No. 2 controlled by a Knockout Cyclone Tank and either the 16.8 MMBtu/hr Small Thermal Oxidizer/Asphalt Heater (EP-14) or the 17.5 MMBtu/hr Large Thermal Oxidizer/Asphalt Heater (EP-15): | PM | 0.70 lb/ton of asphalt charged | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP 14 or EP 15 | | VOC | 0.10 lb/ton of asphalt charged | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP 14 or EP 15 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP 14 or EP 15 | | NO _x | 0.10 lb/ton of asphalt charged | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP 14 or EP 15 | | CO | 1.84 lb/ton of asphalt charged (Using Natural Gas) 2.33 lb/ton of asphalt charged (Using Fuel Oil) | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP 14 or EP 15 | | Formaldehyde | N/A | N/A |
| EP 14 or EP 15 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |

Provisos for Blowstills

Federally Enforceable Provisos

Regulation

Applicability

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| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." | Rule 335-3-16-.03 |
| 2. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. Both Blowstills No.1 and No.2 (EP-14 and EP-15) are subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture." | 40 CFR Part 60 Subpart UU |
| 4. Both Blowstills No. 1 and No. 2 (EP-14 and EP-15) are subject to the applicable requirements of 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR Part 63 Subpart AAAAAAA |

Emission Standards

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| 1. Particulate matter emission rate from the blowstills shall not exceed 0.70 lb/ton of asphalt charged. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 2. No more than 170,000 tons of asphalt may be oxidized in both blowstills combined in any consecutive twelve (12) month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. Carbon monoxide emissions from the blowstills shall not exceed 1.84 lb/ton of asphalt charged when firing Natural Gas in the Thermal Oxidizer. Carbon monoxide emissions from the blowstills shall not exceed 2.33 lb/ton of asphalt charged when firing Fuel Oil in the Thermal Oxidizer. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 4. Volatile organic compound emission rate from the blowstills shall not exceed 0.10 lb/ton of asphalt charged. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 5. Nitrogen oxide emission rate from the blowstills shall not exceed 0.10 lb/ton of asphalt charged. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 6. Stack emissions from the blowstills shall not exceed an opacity greater than zero (0%). | 40 CFR Part 60.472(b) |

Federally Enforceable Provisos**Regulation**

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| 7. The small and large thermal oxidizers may use natural gas, propane, and No. 2 fuel oil as fuel. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 8. The sulfur content of the No. 2 fuel oil burned in these units shall not exceed 0.5% by weight as determined by a test method as approved by the Department. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 9. The small and large thermal oxidizers shall operate on No. 2 fuel oil no more than 2,000 hours in any consecutive twelve (12) month period combined. The Small Thermal Oxidizer (EP-14) may also operate as a backup heater subject to Proviso 11. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 10. The 7.0 MMBtu Coating Heater (EP-22) and the Small Thermal Oxidizer (EP-14) shall not be operated simultaneously when used for heat coating. These units may be operated simultaneously when the Small Thermal Oxidizer is used for Blowstill control. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 11. The Small Thermal Oxidizer (EP-14) shall not be operated as a backup heater to the 7.0 MMBtu Coating Heater (EP-22) for more than 1,300 hours in any twelve (12) month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 12. The combustion chamber temperature of the Small Thermal Oxidizer (EP-14) shall be equal to or greater than 1350° F when it is being used to control fumes from the blowstills. If the temperature drops below 1350° F for any consecutive three (3) hour period during a blow cycle, corrective action must be completed prior to initiating the next blow cycle(s). No emissions may be routed the Small Thermal Oxidizer (EP-14) until the appropriate corrective actions have been completed. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 13. The combustion chamber temperature of the Large Thermal Oxidizer (EP-15) shall be equal to or greater than 1350° F when it is being used to control fumes from the blowstills. If the temperature drops below 1350° F for any consecutive three (3) hour period during a blow cycle, corrective action must be completed prior to initiating the next blow cycle(s). No emissions may be routed the Large Thermal Oxidizer (EP-15) until the appropriate corrective actions have been completed. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 14. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |

Compliance and Performance Test Methods and Procedures

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| 1. Method 5A of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
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| 2. Method 7 of 40 CFR 60 Appendix A shall be used in the determination of nitrogen oxide emissions. | Rule 335-3-1-.05(1)(2) |
| 3. Method 10 of 40 CFR 60 Appendix A shall be used in the determination of carbon monoxide emissions. | Rule 335-3-1-.05(1)(2) |
| 4. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |

Emission Monitoring

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| 1. Emission Monitoring should be conducted as specified by 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR 63.11563 |
| 2. An observation of instantaneous visible emissions from the stacks associated with each unit (EP-14 and EP-15) shall be accomplished weekly while each unit is operating. Records should reflect weeks when the blowstills are not in service. | Rule 335-3-16-.05(c)(1) |
| 3. If the instantaneous opacity is greater than zero (0%) percent then a visible emission observation shall be conducted within thirty (30) minutes of the instantaneous observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 4. If the six (6) minute average opacity during the Method 9 visible emission observation exceeds zero percent (0%), then corrective action must be initiated within one (1) hour to identify and correct the problem. If the Method 9 visible emission observation exceeds zero percent (0%), an additional observation shall be taken after completion of corrective actions to demonstrate that no visible emissions are observed. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 5. An instantaneous opacity observation that exceeds a unit specific opacity limit or a corrective action level shall not be considered an opacity or particulate matter deviation and is not subject to deviation reporting under General Proviso 21. | Rule 335-3-16-.05(c) |

Federally Enforceable Provisos**Regulations**

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| 6. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a six (6) minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c)(1) |
| 7. A deviation of the opacity standard for this unit (when completing periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a six (6) minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c) |
| 8. A monitor which graphically displays the temperature in the firebox of each thermal oxidizer shall be properly maintained and operated continuously when blowing asphalt. This monitor shall have an accuracy of $\pm 18^{\circ}$ F over its range. If the temperature drops below 1350° F for any consecutive (3) hour period during a blow cycle, corrective action must be completed prior to initiating the next blow cycle(s). No emissions may be routed to the Thermal Oxidizer until the appropriate corrective actions have been completed. | 40 CFR Part 60.473(b) |

Recordkeeping and Reporting

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| 1. The following compliance report should be submitted to the Department: a) The report shall indicate the controlled units covered by the report. b) If there were no deviations from the emissions limitations for the units, the report must contain the following: 1) Company name and address. 2) A statement by the Responsible Official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. 3) Date of report and beginning and ending dates of the reporting period. 4) A statement that there were no deviations from the emission limitations during the reporting period. 5) If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period. | 40 CFR 63.11564 |
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- c) For each deviation from an emission limitation (emission limit and operating limit) the following information must be included:
 - 1) The date and time that each deviation started and stopped.
 - 2) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - 3) The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
 - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
 - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - 7) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.
 - 8) An identification of each air pollutant that was monitored at the affected source.
 - 9) A brief description of the process units.
 - 10) A brief description of the CPMS.
 - 11) The date of the latest CPMS certification or audit
 - 12) A description of any changes in CPMS or controls since the last reporting period.
- d) Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- e) Each compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

2. The following records shall be maintained:

40 CFR 63.11564

Federally Enforceable Provisos**Regulations**

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| <ul style="list-style-type: none">a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).b) Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii).c) Documentation that identifies the operating parameters and values specified in Table 4 of this subpart and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2).d) A copy of the site-specific monitoring plan required under §63.11563(b) or (g).e) A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable.f) Records of the operating parameter values required in Table 4 of this subpart to show continuous compliance with each operating limit that applies. | |
| 3. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | Rule 335-3-16-.05(c)(2) |
| 4. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c)(2) |
| 5. Records of continuous readings of the combustion chamber temperatures in each thermal oxidizer shall be maintained in a form suitable for inspection | Rule 335-3-16-.05(c)(2) |
| 6. Records documenting the time, date, and description of any combustion chamber temperature deviation and any corrective action performed on these units shall be maintained in a form suitable for inspection | Rule 335-3-16-.05(c)(2) |
| 7. Records documenting the monthly and twelve (12) month rolling total of the amount of asphalt oxidized in the blowstills shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20 th) day of the month following the last day of the monthly reporting period. | Rule 335-3-16-.05(c)(2) |

| Federally Enforceable Provisos | Regulations |
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| 8. Records of the operation hours and the type of fuel burned during those hours in the heaters and oxidizers shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20 th) day of the month following the last day of the monthly reporting period. | Rule 335-3-16-.05(c)(2) |
| 9. If utilized, fuel oil supplier certificates shall contain the name of the oil supplier, the date the analysis was performed, the sulfur content analysis method used, and the results of the analysis. The fuel oil supplier certificates shall be kept in a form suitable for inspection | Rule 335-3-16-.05(c)(2) |
| 10. Monthly and accumulated twelve (12) month rolling totals documenting the hours of operation that the 16.8 MMBtu/hr Small Thermal Oxidizer (EP-14) is used as a back-up coating heater shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20 th) day of the month following the last day of the monthly reporting period. | Rule 335-3-16-.05(c)(2) |
| 11. Monthly and accumulated twelve (12) month rolling totals documenting the hours of operation that the Small Thermal Oxidizer (EP-14) and Large Thermal Oxidizer (EP-15) operate on No. 2 fuel oil shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20 th) day of the month following the last day of the monthly reporting period. | Rule 335-3-16-.05(c)(2) |
| 12. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c)(2) |

Summary Page for Horizontal Asphalt Storage Tanks

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|--------------|----------------|-----------------------------|
| MON-1 | Three (3) 30,000 Gallon Coating Storage Tanks EP-17, EP-18, & EP-19) and Two (2) 30,000 Gallon Flux/Saturant/Coating Storage Tanks EP-20 & EP-21 controlled by Fume Filter (MON-1) | VOC | N/A | N/A |
| MON-1 | | Formaldehyde | N/A | N/A |
| MON-1 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |

Provisos for Horizontal Asphalt Storage Tanks

| Federally Enforceable Provisos | Regulations |
|---|--------------------------------------|
| <u>Applicability</u> | |
| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." | Rule 335-3-16-.03 |
| 2. The Coating Storage Tanks (1, 2, & 3) are subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture." | 40 CFR 60.470 Subpart UU |
| <u>Emission Standards</u> | |
| 1. The emissions from the coating storage tanks shall be vented to the fume filters at all times, except during active replacement of fume filter elements, preventative maintenance or power failure. | Rule 335-3-16-.05(a) |
| 2. The exhaust gases from the fume filter associated with the coating storage tanks shall not have an opacity greater than zero (0%) percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. | 40 CFR Part 60.472(c) |
| 3. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. During each calendar week the coating tanks are in service, an observation of instantaneous visible emissions from the coating tanks shall be accomplished weekly to determine opacity. Records should reflect weeks when the coating tanks are not in service. If the instantaneous opacity observed is greater than zero percent (0%), then a visible emission observation shall be conducted immediately in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |

| Federally Enforceable Provisos | Regulations |
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| <p>2. If the six (6) minute average opacity during the Method 9 visible emission observation exceeds zero percent (0%) from the coating tanks, corrective actions to minimize emissions shall be initiated within two (2) hours. If the Method 9 visible emission observation exceeds zero percent (0%), an additional observation shall be taken after completion of corrective actions to determine that no visible emission are observed. The subsequent observation shall be completed in accordance with 40 CFR 60, Appendix A, Method 9, the observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. Once per day, the pressure differential across the fume filter shall be observed and recorded. If the pressure differential is outside the operating outside the manufacturer's recommended operating range, maintenance, inspections, and/or corrective action must be initiated within one (1) hour. Records should reflect weeks that the fume filter was not in service.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p><u>Recordkeeping and Reporting</u></p> | |
| <p>1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective action taken during each visible emissions observation shall be kept in a form suitable for inspection.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. Records of daily readings of the pressure differential across the fume filter shall be kept in a form suitable for inspection.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>4. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request.</p> | <p>Rule 335-3-16-.05(c)</p> |

Summary Page for Coating and Line Heaters

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|-----------------|---|------------------------------------|
| EP-22 | 7.0 MMBtu/hr Coating Heater (22) | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-22 | | VOC | N/A | N/A |
| EP-22 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-22 | | NO _x | N/A | N/A |
| EP-22 | | CO | N/A | N/A |
| EP-22 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-23 | 6.3 MMBtu/hr Line No. 3 Born Heater (23) | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-23 | | VOC | N/A | N/A |
| EP-23 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-23 | | NO _x | N/A | N/A |
| EP-23 | | CO | N/A | N/A |
| EP-23 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-24 | 6.3 MMBtu/hr Born Heater (24) | PM | The lesser of 0.5 lbs/hr or the allowable set by the process | ADEM Admin. Code R. 335-3-14-.04 |

| | | | | |
|-------|--|-----------------|---|---------------------------------------|
| | | | weight equation as noted in General Proviso 31 | |
| EP-24 | | VOC | N/A | N/A |
| EP-24 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-24 | | NO _x | N/A | N/A |
| EP-24 | | CO | N/A | N/A |
| EP-24 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

Provisos for Coating Heaters

| Federally Enforceable Provisos | Regulations |
|---|--------------------------------------|
| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 (PSD Avoidance) |
| <u>Emission Standards</u> | |
| 1. Particulate matter emission rate from each of these units shall not exceed the lesser of 0.5 lbs/hr (2.19 TPY) or that set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 2. The heaters are permitted to burn natural gas, No. 2 fuel oil, or propane as fuel. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. The sulfur content of the No. 2 fuel oil burned in these units shall not exceed 0.5% by weight as determined by a test method approved by the Department. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 4. This 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 this source discharge a 6-minute average opacity of particulate emissions greater than 40%. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 5. The 7.0 MMBtu/hr Coating Heater (EP-22) and the 16.8 MMBtu/hr Small Thermal Oxidizer (EP-14) shall not be operated simultaneously when used to heat coating. These units may be operated simultaneously when the small thermal oxidizer is used for blowstill control. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 6. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |

| Federally Enforceable Provisos | Regulations |
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| <p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. An observation of instantaneous visible emissions from the stacks associated with each unit (EP-22, EP-23, EP-24) shall be accomplished daily while each unit is operating on fuel oil. Records should reflect weeks when the heaters are not in use or not operating on fuel oil 2. If the instantaneous opacity is greater than ten (10%) percent, a visible emissions observation shall be conducted within (30) minutes of the instantaneous observation in accordance with 40 CFR 60 Appendix A, Method 9 unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. 3. If the average opacity during the Method 9 visible emission observation exceeds ten (10%) percent, then corrective action shall be initiated within one (1) hour to identify and correct the problem. If the Method 9 visible emission observation exceeds ten percent (10%), an additional observation shall be taken after completion of corrective actions to demonstrate that no visible emissions are observed. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. 4. An instantaneous opacity observation that exceeds a unit specific opacity limit or a corrective action level shall not be considered an opacity or particulate matter deviation and is not subject to deviation reporting under General Proviso 21. 5. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9. 6. A deviation of the opacity standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9. | <p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)(1)</p> |

| Federally Enforceable Provisos | Regulations |
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| <u>Recordkeeping and Reporting</u> | |
| 1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | Rule 335-3-16-.05(c) |
| 2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c) |
| 3. If utilized, fuel oil supplier certificates shall contain the name of the oil supplier, the date the analysis was performed, the sulfur content analysis method used, and the results of the analysis. The fuel oil supplier certificates shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c) |
| 4. Records of the operation hours and the type of fuel burned during those hours in the heaters and oxidizers, as well as records of the sulfur content of the No. 2 fuel oil burned in these units, must be maintained by the facility. | Rule 335-3-16-.05(c) |
| 5. Monthly hours of operation and fuel usage records shall be summarized no later than the twentieth (20 th) day of the month following the last day of each monthly reporting period. | Rule 335-3-16-.05(c) |
| 6. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c) |

Summary Page for Limestone/Talc Transfer Area

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--------------------------------------|-----------|--|------------------------------------|
| | Limestone/Talc Transfer Area | | | |
| EP-31a | Limestone Rock Unloading (31a) | PM | N/A | N/A |
| EP-31a | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-31b | Two (2) Lower Rock Conveyors (31b) | PM | N/A | N/A |
| EP-31b | | Opacity | 10% | 40 CFR 60.672(b) Subpart OOO |
| EP-31c | Rock Hopper (31c) | PM | N/A | N/A |
| EP-31c | | Opacity | 10% | 40 CFR 60.670(b) Subpart OOO |
| EP-31d | Three (3) Upper Rock Conveyors (31d) | PM | N/A | N/A |
| EP-31d | | Opacity | 10% | 40 CFR 60.670(b) Subpart OOO |
| EP-31e | Two (2) Rock Tank Conveyors (31e) | PM | N/A | N/A |
| EP-31e | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

Provisos for Limestone/Talc Transfer Area

| Federally Enforceable Provisos | Regulations |
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| <u>Applicability</u> <ol style="list-style-type: none"> 1. These units are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." 2. The Lower Rock Conveyor (EP-31b), Rock Hopper (EP-31c) and Upper Rock Conveyor (EP-31d) are subject to the applicable requirements of 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants." | <p>Rule 335-3-16-.03</p> <p>40 CFR Part 60 Subpart OOO</p> |
| <u>Emission Standards</u> <ol style="list-style-type: none"> 1. The permittee shall not cause to be discharged into the atmosphere from the Lower Rock Conveyor (EP-31b), Rock Hopper (EP-31c), and the Upper Rock Conveyor (EP-31d) any fugitive emissions which exhibit greater than ten (10%) percent opacity. 2. Facility-wide emissions of PM, PM₁₀, and CO shall not exceed 249 tpy in any consecutive twelve month period. | <p>40 CFR 60.672(b)</p> <p>Rule 335-3-14-.04 (PSD Avoidance)</p> |
| <u>Compliance and Performance Test Methods and Procedures</u> <ol style="list-style-type: none"> 1. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | <p>Rule 335-3-1-.05(1)(2)</p> |
| <u>Emission Monitoring</u> <ol style="list-style-type: none"> 1. An observation of instantaneous visible emissions from the Lower Rock Conveyor (EP-31b), Rock Hopper (EP-31c), and Upper Rock Conveyor (EP-31d) shall be accomplished at least weekly while in operation. Records should reflect weeks when the units are not in service. 2. If the instantaneous opacity observed from the Lower Rock Conveyor (EP-31b), Rock Hopper (EP-31c), and Upper Rock Conveyor (EP-31d) is greater than zero (0%) percent, then a visible emission observation shall be conducted within thirty (30) minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9. Unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |

| Federally Enforceable Provisos | Regulations |
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| <p>3. If the average opacity during the Method 9 visible emission observation of the Lower Rock Conveyor (EP-31b), Rock Hopper (EP-31c), and Upper Rock Conveyor (EP-31d) exceeds five (5%) percent, then corrective action shall be initiated within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds ten (10%) percent an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by Unit Proviso 1. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>4. An instantaneous opacity observation that exceeds a unit specific opacity limit or a corrective action level shall not be considered an opacity or particulate matter deviation and is not subject to deviation reporting under General Proviso 21.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>5. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>6. A deviation of the opacity standard for this unit (when completing the periodic monitoring above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p><u>Recordkeeping and Reporting</u></p> | |
| <p>1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p> | <p>Rule 335-3-16-.05(c)</p> |

Summary Page for Raymond Mills No. 1 & 2

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|---|-----------------|--|------------------------------------|
| EP-32b | 12 TPH Raymond Mill No. 1 with 2.4 MMBtu/hr Natural Gas and Propane Fired Heater (32a) and Baghouse (32b) | PM | The lesser of 2.00 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-32b | | SO ₂ | N/A | N/A |
| EP-32b | | NO _x | N/A | N/A |
| EP-32b | | CO | N/A | N/A |
| EP-32b | | VOC | N/A | N/A |
| EP-32b | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-33b | 12 TPH Raymond Mill No. 2 with 2.4 MMBtu/hr Natural Gas and Propane Fired Heater (33a) and Baghouse (33b) | PM | The lesser of 2.00 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-33b | | SO ₂ | N/A | N/A |
| EP-33b | | NO _x | N/A | N/A |
| EP-33b | | CO | N/A | N/A |
| EP-33b | | VOC | N/A | N/A |
| EP-33b | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

Provisos for Raymond Mills No. 1 & 2

| Federally Enforceable Provisos | Regulations |
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| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 |
| 3. These units are subject to 40 CFR 64, "Compliance Assurance Monitoring", to include General Permit Proviso No. 33. | 40 CFR Part 64 |
| <u>Emission Standards</u> | |
| 1. The 2.4 MMBtu/hr Heaters may burn only natural gas and propane. | Rule 335-3-16-.05(a) |
| 2. There are no unit specific opacity standards other than those listed in the general proviso 29 of this permit. | Rule 335-3-4-.01 |
| 3. Particulate matter emission rate from these units shall not exceed the lesser of 2.0 lbs/hr each or that set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 4. If both the Raymond Mill No. 2 and the Limestone Filler Tanks are operating, the particulate matter emission rate from the baghouse associated with these units shall not exceed the lesser of 2.23 lb/hr or that set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 5. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |

| Federally Enforceable Provisos | Regulations |
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| <p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. During each calendar week Raymond Mills Nos. 1 & 2 are in operation an observation of instantaneous visible emissions from the baghouses associated with these units (EP-32b & 33b) shall be accomplished. Records should reflect weeks when the mill is not in service. 2. If the instantaneous opacity observed is greater than ten (10%) percent, then a visible emission observation shall be conducted within thirty (30) minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. 3. If the average opacity during the Method 9 visible emission observation exceeds ten (10%) percent, then corrective action shall be initiated within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds twenty (20%) percent an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by General Proviso 29. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. 4. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is not subject to deviation reporting under General Proviso 21. 5. A deviation of the particulate standard for these units (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a (6) minute average in accordance with EPA Method 9. 6. A deviation of the opacity standard for these units (when completing the periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9. <p><u>Recordkeeping and Reporting</u></p> | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |

Federally Enforceable Provisos**Regulations**

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|--|----------------------|
| 1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | Rule 335-3-16-.05(c) |
| 2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c) |
| 3. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c) |

Summary Page for Raymond Mill No. 3

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|---|-----------------|---------------------------------------|------------------------------------|
| EP-62b | 26 TPH Raymond Mill No. 3 with 4.718 MMBtu/hr Natural Gas, No. 2 Fuel Oil, and Propane Fired Heater with Baghouse | PM | 0.05 g/dscm | 40 CFR 60.672(a)(1) Subpart OOO |
| EP-62b | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-62b | | NO _x | N/A | N/A |
| EP-62b | | CO | N/A | N/A |
| EP-62b | | VOC | N/A | N/A |
| EP-62b | | Opacity | 7% | 40 CFR 60.672(a)(2) Subpart OOO |

Provisos for Raymond Mill No. 3

| Federally Enforceable Provisos | Regulations |
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| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 |
| 3. This source is subject to the applicable requirements of 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants." | 40 CFR Part 60 Subpart OOO |
| <u>Emission Standards</u> | |
| 1. No person shall cause to be discharged into the atmosphere any stack emissions from the baghouse associated with this source which: | 40 CFR Part 60.672(a)(1)(2) |
| a) Contain particulate matter in excess of 0.05 g/dscm (0.022gr/dscf); and | 40 CFR Part 60.672(a)(1) |
| b) Exhibit greater than seven (7%) percent opacity. | 40 CFR Part 60.672(a)(2) |
| 2. The 4.718 MMBtu/hr Heater may burn natural gas, No. 2 fuel oil, or propane as fuel. | Rule 335-3-16-.05(a) |
| 3. The sulfur content of the No. 2 fuel oil burned in this unit shall not exceed 0.5% by weight. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 4. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | 335-3-1-.05(1)(2) |
| 2. Method 7 of 40 CFR 60 Appendix A shall be used in the determination of nitrogen oxide emissions. | 335-3-1-.05(1)(2) |
| 3. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | 335-3-1-.05(1)(2) |

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| 4. Method 10 of 40 CFR 60 Appendix A shall be used in the determination of carbon monoxide emissions. | 335-3-1-.05(1)(2) |
| 5. The sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight as determined by a test method as approved by the Department. | 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. During each calendar week Raymond Mill No. 3 is in operation an observation of instantaneous visible emissions from the baghouse associated with this unit (EP-62b) shall be accomplished weekly while in operation. Records should reflect weeks when the units are not in service. | Rule 335-3-16-.05(c) |
| 2. If the instantaneous opacity observed is greater than zero (0%) percent, then a visible emission observation shall be conducted within 30 minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |
| 3. If any visible emissions are observed during the Method 9 observation, corrective action shall be initiated within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds seven (7%) percent an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by Unit Specific Proviso Emissions Standards 1. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |
| 4. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is not subject to deviation reporting under General Proviso 21. | Rule 335-3-16-.05(c) |
| 5. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c) |
| 6. A deviation of the opacity standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as | Rule 335-3-16-.05(c)(1) |

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| measured by a 6-minute average in accordance with EPA Method 9. | |
| <u>Recordkeeping and Reporting Requirements</u> | |
| 1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | Rule 335-3-16-.05(c) |
| 2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection | Rule 335-3-16-.05(c) |
| 3. Records of the sulfur content of the No. 2 fuel oil burned in these units must be kept in a form suitable for inspection. | Rule 335-3-16-.05(c)(1) |
| 4. If utilized, fuel oil supplier certificates shall contain the name of the oil supplier and a statement from the oil supplier that the oil complies with the sulfur content limit. | Rule 335-3-16-.05(c)(1) |
| 5. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c) |

Summary Page for Limestone Filler Tanks

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|---|-----------|--|----------------------------------|
| EP-33b & EP-35b | East, West, South, & Mill No. 3 Filler Tanks with Two (2) Baghouses common to East, West, South (33b & 35b) and Mill No. 3 Filler Tanks (EP-33b & EP-35b) | PM | The lesser of 0.23 lbs/hr (EP-35b) and 2 lb/hr (EP-33b) or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-33b & EP-35b | Mill No. 3 Filler Tanks with (2) Two Baghouses | Opacity | 1% | 40 CFR 60.472(d) Subpart UU |
| EP-33b & EP-35b | East, West, South Tanks | Opacity | 20% | ADEM Admin. Code R. 335-3-4-.01 |

Provisos for Limestone Filler Tanks

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| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]". | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. The Mill No. 3 Filler Tank (EP-33b and EP-35b) is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture". | 40 CFR Part 60 Subpart UU |
| <u>Emission Standards</u> | |
| 1. Particulate matter emission rate from these units shall not exceed 0.23 lbs/hr. | Rule 335-3-14-.04 |
| 2. If both the Raymond Mill No. 2 and the Limestone Filler Tanks are operating, the particulate matter emission rate from the baghouse associated with these units (EP-33b) shall not exceed the lesser of 2.23 lb/hr or that set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 3. Mill #3 Filler Tank and either baghouse associated with this tank shall not discharge into the atmosphere particulate emissions with an opacity greater than 1%. The East, West, South Tanks, and the associated mineral handling system, and either baghouse when the Mill #3 Filler Tank is not in use shall not have emissions with an opacity greater than that allowed by General Proviso 29. | 40 CFR Part 60.472(d) ADEM Admin. Code R. 335-3-4-.01(1) |
| 4. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |

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| 1. During each calendar week the Mill #3 Filler Tank is in service, an observation of instantaneous visible emissions from the baghouses associated with Mill #3 Filler Tank (EP-33b & EP-35b) shall be accomplished weekly. Any week Raymond Mills 1, 2, or 3 are in operation, an observation of instantaneous emissions from the associated baghouses (EP-33b) shall be accomplished weekly. Records should reflect weeks when the Mill #3 Filler Tank is not in service. | Rule 335-3-16-.05(c)(1) |
| 2. If the instantaneous opacity observed is greater than zero (0%) percent, then a visible emission observation shall be conducted within thirty (30) minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c) |
| 3. If any visible emission are observed during the Method 9 observation, corrective action shall be initiated within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds zero percent (0%) when the Mill #3 Filler Tank is in operation an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by Unit Specific Proviso Emissions Standard 3. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 4. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is no subject to deviation reporting under General Proviso 21. | Rule 335-3-16-.05(c) |
| 5. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c) |
| 6. A deviation of the opacity standard for this unit (when completing periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c) |

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| <u>Recordkeeping and Reporting</u> | |
| 1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | Rule 335-3-16-.05(c) |
| 2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c) |
| 3. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c) |

Summary Page for Roofing Line No. 1

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|-----------|--|---|
| EP-34 | 15 TPH Talc Silo with Baghouse (34) | PM | The lesser of 0.01 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-34 | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-35a | Mineral Backing Silo | PM | The lesser of 0.24 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-35a | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-35c | 17 TPH Mineral Backing Conveyor and Storage System with Baghouse (35c) | PM | The lesser of 0.24 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-35c | | Opacity | 1% | 40 CFR 60.472(d) Subpart UU |
| EP-36 | Fiberglass Rack Splicer(36) | PM | The lesser of 0.04 lbs/hr or the allowable set by the process weight equation as noted in | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |

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| | | | General Proviso 31 | |
| EP-36 | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-41 | 40 TPH Filler Surge Hopper with Baghouse (41) | PM | The lesser of 0.01 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-41 | | Opacity | 20%, except one per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-43a | Mineral Application Section with Baghouse (43a) | PM | The lesser of 0.04 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-43a | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-46 | Sealdown Run Tank #1 (44) | VOC | N/A | N/A |
| EP-46 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| EP-72 | Sealdown Applicator and Sealdown Run Tank #2 (44a) | VOC | N/A | N/A |
| EP-72 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| EP-46 | 20,094 Gallon Shuttle Sealdown Tank | VOC | N/A | N/A |
| EP-46 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |

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| CVM EP-50c and EP-50d | Roofing Line No. 1 Coater | PM | The lesser of 0.06 lb/ton of shingles or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| CVM EP-50c and EP-50d | | CO | N/A | N/A |
| CVM EP-50c and EP-50d | | VOC | N/A | N/A |
| CVM EP-50c and EP-50d | | Formaldehyde | N/A | N/A |
| CVM EP-50c and EP-50d | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-43g | Thirteen (13) Headlap and Granule Bins (64c) | PM | The lesser of 0.19 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-43g | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-64d | Twenty-six (26) Headlap and Granule Silos (64d) | PM | The lesser of 0.19 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-64d | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-70c | 80 TPH Cutter (70c) | PM | The lesser of 0.13 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |

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| EP-70c | | Opacity | 20%, except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
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Provisos for Roofing Line No. 1

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| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. The following Units are subject to 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture": a) Mineral Backing Conveyor and Storage System w/Baghouse (EP-35c) b) Backing Storage Silos (EP-35a) c) Sealdown Run Tank #2 (EP-44a) d) Shuttle Sealdown Tank [EP-46] (CECO-EP-46) e) Laminate Run Tank (EP-59h) | 40 CFR Part 60.470(a)(b) |
| 4. This source is subject to the applicable requirements of 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards of Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR Part 63 Subpart AAAAAAA |
| <u>Emission Standards</u> | |
| 1. Particulate matter emission rate from the Talc Silo with Baghouse (EP-34) shall not exceed the lesser of 0.01 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 2. Particulate matter emission rate from the Mineral Backing Conveyor and Storage System (EP-35c) shall not exceed the lesser of 0.24 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 3. The particulate matter emission rate from the Mineral Backing Silo (EP-35a) shall not exceed the lesser of 0.24 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 4. Particulate matter emission rate from the Fiberglass Rack Splicer (EP-36) shall not exceed the lesser of 0.04 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |

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| 5. Particulate matter emission rate from the Filler Surge Hopper with Baghouse (EP-41) shall not exceed the lesser of 0.01 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 6. Particulate matter emission rate from the Mineral Application Section with Baghouse (EP-43a) shall not exceed the lesser of 0.04 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 7. Particulate matter emission rate from Fourteen (14) Headlap and Granule Bins 64c (EP-43g) shall not exceed the lesser of 0.19 lbs/hr each or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 8. Particulate matter emission rate from the Roofing Line No. 1 Coater (CVM-EP-50c and 50d) shall not exceed the lesser of 0.06 lb/ton of shingles produced or the allowable set by Rule 335-3-4-.04. | 40 CFR 63.11561 Rule 335-3-4-.04 |
| 9. No more than 701,000 tons of shingles shall be manufactured on Roofing Line No. 1 per consecutive twelve (12) month period. | Rule 335-3-14-.04 (PSD Avoidance) |
| 10. Particulate matter emission rate from the Twenty Six (26) Headlap and Granule Silos (EP-64d) shall not exceed the lesser of 0.19 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 11. Particulate matter emission rate from the Cutter (EP-70c) shall not exceed the lesser of 0.13 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD Avoidance) |
| 12. The Backing Storage Silos (EP-35a) and the Mineral Backing Conveyor and Storage System with Baghouse (EP-35c) shall not have an opacity greater than one (1%) percent. | 40 CFR Part 60.472(d) |
| 13. The Shuttle Sealdown Tank (EP-46) and Laminate Run Tank (EP-59h) shall not have an opacity greater than zero (0%) percent, except for one consecutive fifteen (15) minute period in any twenty-four (24) hour period when the transfer lines are being blown for clearing. The control devices shall not be bypassed during this fifteen (15) minute period. | 40 CFR Part 60.472(c) |
| 14. Stack emissions not subject to NSPS Subpart UU are subject to the opacity standard listed in General Proviso 29. | Rule 335-3-4-.01(1) |
| 15. The emissions from the Roofing Line No. 1 Coater shall be vented to the fume filters (CVM-EP-50c and 50d). | Rule 335-3-16-.05(a) |
| 16. The emissions from the Line 1 Laminate System shall be vented to the fume filter (EP-78). | Rule 335-3-16-.05(a) |

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| 17.The fume filters (EP-50c, 50d, & EP-78) shall be properly maintained and operated at all times when the Roofing Line No. 1 Coater and Line 1 Laminate System is in operation. | Rule 335-3-16-.05(a) |
| 18.All heaters on Roofing Line No. 1 may burn only natural gas or propane as fuel. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 19.Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. Emission Monitoring should be conducted as specified by 40 CFR 63 Subpart AAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR 63.11563 |
| 2. During each calendar week that the Line 1 Laminate System is in service, an observation of instantaneous visible emissions from the Laminate Run Tank (EP-59H), Pattern Cutter (EP-74), Laminator (EP-75), Cutter (EP-76), Laminate Run Tank Heater (EP-77), and Fume Filter (EP-78) shall be accomplished weekly while in operation. Records should reflect weeks when the units are not in service. | Rule 335-3-16-.05(c)(1) |
| 3. During each calendar week that Line 1 is in service, an observation of instantaneous visible emissions from the Talc Silo (EP-34), Fiberglass Rack Splicer (EP-36), Filler Surge Hopper (EP-41), Mineral Application Section (EP-43a), Coater (CVM-EP-50c and 50d), and Headlap and Granule Bins (EP-43g) shall be accomplished. Whenever active, whether line is in operation or not, visible emissions observations from the Headlap and Granule Silos (EP-64d), Shuttle Sealdown Tank (CECO-EP-46), and Mineral Backing Conveyor and Storage System with Baghouse (EP-35c) shall be accomplished weekly while in service. Records should reflect weeks when the units are not in service. | Rule 335-3-16-.05(c)(1) |
| 4. If the instantaneous opacity observed from the Talc Silo (EP-34), Felt Rack (EP-36), Filler Surge Hopper (EP-41), Mineral Application Section (EP-43a), Coater (CVM-EP-50c and EP-50d), Headlap and Granule Bins 64c (EP-43g), Headlap and Granule | Rule 335-3-16-.05(c)(1) |

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| <p>Silos (EP-64d), Pattern Cutter (EP-74), Laminator (EP-75), or Cutter (EP-76) is greater than ten (10%) percent, then a visible emission observation shall be conducted within thirty (30) minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | |
| <p>5. If the average opacity during the Method 9 visible emission observations of the Talc Silo (EP-34), Felt Rack (EP-36), Filler Surge Hopper (EP-41), Mineral Application Section (EP-43a), Coater (CVM-EP-50c and 50d), Headlap and Granule Bins 64c (EP-43g), Headlap and Granule Silos (EP-64d), Pattern Cutter (EP-74), Laminator (EP-75), or Cutter (EP-76) is greater than ten (10%) percent, then corrective action shall be taken within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds ten (10%) percent an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by General Proviso 29. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | <p>Rule 335-3-16-.05(c)(1)</p> |
| <p>6. If the instantaneous opacity observed from the Shuttle Sealdown Tank (CECO-EP-46), Backing Storage Silos (EP-35a), Mineral Backing Conveyor and Storage System with Baghouse (EP-35c), Laminate Run Tank (EP-59H), or Fume Filter (EP-78) is greater than zero percent (0%), then a visible emission observation shall be conducted within thirty (30) minutes of the instantaneous observation in accordance with 40 CFR 60, Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | <p>Rule 335-3-16-.05(c)(1)</p> |
| <p>7. If the average opacity during the Method 9 visible emission observation of the Shuttle Sealdown Tank (CECO EP-46), Backing Storage Silos (EP-35a), Mineral Backing Conveyor and Storage System with Baghouse (EP-35c), Laminate Run Tank (EP-59H), or Fume Filter (EP-78) corrective actions to minimize emissions shall be taken within one (1) hour, if required. If the Method 9 visible emission observation exceeds zero (0%) percent an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by Unit Specific Proviso</p> | <p>Rule 335-3-16-.05(c)(1)</p> |

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| <p>Emissions Standards 13/14. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> <p>8. Once per day, the pressure differential across the fume filters shall be observed and recorded. If the pressure differential is outside the manufacturer's recommended operating range, maintenance, inspections, and/or corrective action must be initiated within two (2) hours. Records should reflect the weeks the fume filter is not in service.</p> <p>9. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is no subject to deviation reporting under General Proviso 21.</p> <p>10. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9.</p> <p>11. A deviation of the opacity standard for this unit (when completing periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9.</p> | <p></p> <p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)</p> |
| <p><u>Recordkeeping and Reporting Requirements</u></p> | <p></p> |
| <p>1. The following compliance report should be submitted to the Department:</p> <p>a) The report shall indicate the controlled units covered by the report.</p> <p>b) If there were no deviations from the emissions limitations for the units, the report must contain the following:</p> <p>1) Company name and address.</p> <p>2) A statement by the Responsible Official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.</p> <p>3) Date of report and beginning and ending dates of the reporting period.</p> | <p>40 CFR 63.11564</p> |

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- 4) A statement that there were no deviations from the emission limitations during the reporting period.
- 5) If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.
- c) For each deviation from an emission limitation (emission limit and operating limit) the following information must be included:
 - 1) The date and time that each deviation started and stopped.
 - 2) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - 3) The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
 - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
 - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - 7) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.
 - 8) An identification of each air pollutant that was monitored at the affected source.
 - 9) A brief description of the process units.
 - 10) A brief description of the CPMS.
 - 11) The date of the latest CPMS certification or audit
 - 12) A description of any changes in CPMS or controls since the last reporting period.

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| <ul style="list-style-type: none"> d) Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. e) Each compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. | |
| <p>2. The following records shall be maintained:</p> <ul style="list-style-type: none"> a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv). b) Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii). c) Documentation that identifies the operating parameters and values specified in Table 4 of this subpart and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2). d) A copy of the site-specific monitoring plan required under §63.11563(b) or (g). e) A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable. f) Records of the operating parameter values required in Table 4 of this subpart to show continuous compliance with each operating limit that applies. | <p>40 CFR 63.11564</p> |
| <p>3. The owner/operator is required to record and report the operating temperature of the control device during the performance test and, as required by §60.7(d), maintain a file of the temperature monitoring results for at least two years.</p> | <p>40 CFR 60.473(d)</p> |
| <p>4. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.</p> | <p>Rule 335-3-16-.05(c)(2)</p> |
| <p>5. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection.</p> | <p>Rule 335-3-16-.05(c)(2)</p> |

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| 6. If utilized, fuel oil supplier certificates shall contain the name of the oil supplier, the date the analysis was performed, the sulfur content analysis method used, and the results of the analysis. The fuel oil supplier certificates shall be kept in a form suitable for inspection. | Rule 335-3-16-.05(c)(2) |
| 7. Records documenting the monthly and twelve (12) month rolling total of the amount of roofing shingles (in tons) produced on Roofing Line No. 1 shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20 th) day of the month following the last day of the monthly reporting period. | Rule 335-3-16-.05(c)(1) |
| 8. Records of daily readings of the pressure differential across the fume filters (CVM-EP-50c, EP-50d, and EP-78) shall be kept in a form suitable for inspection and made available upon request. | Rule 335-3-16-.05(c)(2) |
| 9. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request. | Rule 335-3-16-.05(c) |

Summary Page for Roofing Line No. 2

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|--------------|--|---|
| EP-49 | Fiberglass Rack Splicer (49) | PM | The lesser of 0.03 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-49 | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-50e | Roofing Line No. 2 Coater | CO | N/A | N/A |
| EP-50e | | PM | The lesser of 0.06 lb/ton of shingles or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-50e | | VOC | N/A | N/A |
| EP-50e | | Formaldehyde | N/A | N/A |
| EP-50e | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-53 | 32 TPH Filler Transfer with 3.0 MMBtu/hr Natural Gas and Propane Fired Filler Heater | PM | The lesser of 0.11 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-53 | | Opacity | | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-54 | Receiver (54) | PM | The lesser of 0.001 lbs/hr or the allowable set by the process weight equation | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |

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| | | | as noted in General Proviso 31 | |
| EP-54 | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-69 | Surge Hopper with Bin Vent | PM | N/A | N/A |
| EP-69 | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-55 | Backing Storage, Handling, and Application System with Baghouse (55) | PM | The lesser of 0.06 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-55 | | Opacity | 20%; except one per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-55 | Granule Application System (55a) | PM | The lesser of 0.19 lbs/hr or the allowable set by by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-55 | | Opacity | 20%; except one 6-minute average per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-72 | 16,000 Gallon Laminate Storage Tank (59a) common to Roofing Line No. 1 with CECO (72) | VOC | N/A | N/A |
| EP-72 | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| CECO-EP- 59g | Roofing Line No. 2 Laminator (59b) | CO | N/A | N/A |
| CECO-EP- 59g | | PM | The lesser of 0.85 lbs/hr or the allowable set by by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| CECO-EP- 59g | | VOC | N/A | N/A |

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| CECO-EP-59g | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-59c | Cutter No. 1 (59c) | PM | The lesser of 0.11 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| EP-59c | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-59d | Cutter No. 2 (59d) | PM | The lesser of 0.11 lbs/hr or the allowable by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-avoidance) |
| EP-59d | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| CECO-EP-59e | Laminate Run Tank (59e) | VOC | N/A | N/A |
| CECO-EP-59e | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| CECO-EP-63a | Sealdown Run Tank (63a) | VOC | N/A | N/A |
| CECO-EP-63a | | Opacity | 0% | 40 CFR 60.472(c) Subpart UU |
| 64a | Fourteen (14) Headlap and Granule Bins | PM | The lesser of 0.19 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| 64b | Seventeen (17) Headlap and Granule Silos | PM | The lesser of 0.194 lbs/hr or the allowable set by the process weight equation as noted in | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |

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| | | | General Proviso 31 | |
| | | Opacity | 20%; except one 6-minute interval per hour \leq 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

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Provisos for Roofing Line No. 2

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| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]". 3. The Laminate Storage Tank EP #59a (EP-72), Laminate Run Tank EP #59e (CECO-EP-59e), and Sealdown Run Tank (EP-63a) are subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture". 4. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants for Asphalt Processing Area Sources". | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-14-.04 (PSD-Avoidance)</p> <p>40 CFR Part 60.470(a)(b)</p> <p>40 CFR Part 63 Subpart AAAAAAA</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emission rate from the Roofing Line No. 2 Coater (EP #50e) shall not exceed 0.06 lb/ton of shingles produced or the allowable set by Rule 335-3-4-.04. 2. No more than 616,500 tons of shingles shall be manufactured on Roofing Line No. 2 per consecutive twelve (12) month period. 3. Particulate matter emission rate from the Felt Rack (EP #49) shall not exceed 0.03 lbs/hr or the allowable set by Rule 335-3-4-.04. 4. Particulate matter emission rate from the Filler Transfer with Heater (EP #53) shall not exceed 0.11 lbs/hr or the allowable set by Rule 335-3-4-.04. 5. Particulate matter emission rate from the Receiving/Surge Filler Hopper (EP #54) shall not exceed 0.001 lbs/hr or the allowable set by Rule 335-3-4-.04. 6. Particulate matter emission rate from the Backing Storage, Handling, and Application System (EP #55) shall not exceed 0.06 lbs/hr or the allowable set by Rule 335-3-4-.04. | <p>40 CFR Part 63.11561</p> <p>Rule 335-3-4-.04</p> <p>Rule 335-3-14-.04 (PSD-Avoidance)</p> <p>Rule 335-3-14-.04 (PSD-Avoidance)</p> <p>Rule 335-3-14-.04 (PSD-Avoidance)</p> <p>Rule 335-3-14-.04 (PSD-Avoidance)</p> |

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| 7. Particulate matter emission rate from the Granule Storage, Handling, and Application System (EP #55a) shall not exceed 0.19 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 8. Particulate matter emission rate from the Laminator (EP #59b) shall not exceed 0.85 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 9. Particulate matter emission rate from the Cutter No. 1 (EP #59c) shall not exceed 0.11 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 10. Particulate matter emission rate from the Cutter No. 2 (EP #59d) shall not exceed 0.11 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 11. Particulate matter emission rate from the Headlap Granule Bins (EP #64a) shall not exceed 0.19 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 12. Particulate matter emission rate from the Headlap Granule Silos (EP #64b) shall not exceed 0.194 lbs/hr or the allowable set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 13. The exhaust gases from the Laminate Storage Tank EP #59a (EP-72), Laminate Run Tank EP #59e (CECO-EP-59g), and Sealdown Run Tank (CECO-EP-63a) shall not have an opacity greater than zero (0%) percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. | 40 CFR Part 60.472(c) |
| 14. Stack emissions not subject to NSPS Subpart UU are subject to opacity standards listed in General Proviso 29. | Rule 335-3-4-.01(1) |
| 15. The emissions from the Roofing Line No. 2 Coater (EP #50e) shall be vented to the fume filter. | Rule 335-3-16-.05(a) |
| 16. The fume filter shall be properly maintained and operated at all times when the Roofing Line #2 Coater is in operation. | Rule 335-3-16-.05(a) |
| 17. Heaters on Roofing Line No. 2 may burn only natural gas or propane as fuel. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 18. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |

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| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or a method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. Emission Monitoring should be conducted as specified by 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR 63.11563 |
| 2. During each calendar week that Line 2 is in service an observation of instantaneous visible emissions from Fiberglass Rack Splicer (EP-49), Coater (EP-50e), Receiver/Surge Hopper (EP-54), Backing, Storage, Handling and Application System (EP-55), Granule Application System (EP-55a), Laminator (EP-59b), Cutter No.1 (EP-59c), Cutter No. 2 (EP-59d), Headlap and Granule Bins (EP-64a) Headlap and Granule Silos (EP-64b), shall be accomplished weekly while in service. Whenever active, whether line is in operation or not, visible emissions from Laminate Storage Tank 59a (EP-72), Laminate Run Tank 59e (CECO-EP-59g), and Sealdown Run Tank 63a (CECO-EP-63a) shall be accomplished weekly while in service. Records must indicate weeks when Line 2 is not in service. | Rule 335-3-16-.05(c)(1) |
| 3. If the instantaneous opacity observed from the Fiberglass Rack Splicer (EP #49), Coater (EP #50e), Receiver/Surge Hopper (EP #54), Backing Storage, Handling, and Application System (EP #55), Granule Application System (EP #55a), Laminator (EP #59b), Cutter No. 1 (EP#59c), Cutter No. 2 (EP #59d), Headlap and Granule Bins (EP #64a), and Headlap and Granule Silos (EP #64b) is greater than ten (10%) percent, then a visible emission observation shall be conducted within 30 minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observations period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 4. If the average opacity during the Method 9 visible emission observations of the Fiberglass Rack Splicer (EP #49), Coater (EP #50e), Receiver/Surge Hopper (EP #54), Backing Storage, | Rule 335-3-16-.05(c)(1) |

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| <p>Handling, and Application System (EP #55), Granule Application System (EP #55a), Laminator (EP #59b), Cutter No. 1 (EP#59c), Cutter No. 2 (EP #59d), Headlap Granule Bins (EP #64a), and Headlap Granule Silos (EP #64b) is greater than ten percent (10%) then corrective action shall be initiated within one (1) hour, if required. If the Method 9 visible emission observation exceeds ten percent (10%), an additional observation shall be taken after completion of corrective actions to demonstrate the visible emissions are below the limits allowed by General Proviso 29. The subsequent observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | |
| <p>5. If the instantaneous opacity observed from the Laminate Storage Tank EP #59a (EP-72), Laminate Run Tank EP #59e (CECO-EP-59g) or Sealdown Run Tank EP #63a (CECO-EP-63a) is greater than zero percent (0%), then a visible emission observation shall be conducted immediately in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average.</p> | <p>Rule 335-3-16-.05(c)(1)</p> |
| <p>6. If the average opacity during the Method 9 visible emission observations of the Laminate Storage Tank EP #59a (EP-72), Laminate Run Tank EP #59e (CECO-EP-59g) or Sealdown Run Tank EP #63a (CECO-EP-63a) is greater than zero percent (0%), then corrective action shall be initiated within one (1) hour if required. If the Method 9 visible emission observation exceeds zero percent (0%), an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by Unit Specific Proviso Emission Standard 14/15. The subsequent observation shall be completed in accordance with 40 CFR 60 Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes.</p> | <p>Rule 335-3-16-.05(c)(1)</p> |
| <p>7. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is no subject to deviation reporting under General Proviso 21.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>8. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this</p> | <p>Rule 335-3-16-.05(c)(1)</p> |

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| <p>section as measured by a 6-minute average in accordance with EPA Method 9.</p> | |
| <p>9. A deviation of the opacity standard for this unit (when completing periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>10. Once per day, the pressure differential across the fume filter (EP-50e) shall be observed and recorded. If the pressure differential is outside the manufacturers recommended operating range, maintenance, inspections, and/or corrective action to bring the pressure differential within the manufacturer's recommended operating range shall be initiated within two (2) hours. Records should reflect weeks the fume filter is not in service.</p> | <p>Rule 335-3-16-.05(c)(1)</p> |
| <p><u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>1. The following compliance report should be submitted to the Department:</p> <ul style="list-style-type: none"> a) The report shall indicate the controlled units covered by the report. b) If there were no deviations from the emissions limitations for the units, the report must contain the following: <ul style="list-style-type: none"> 1) Company name and address. 2) A statement by the Responsible Official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. 3) Date of report and beginning and ending dates of the reporting period. 4) A statement that there were no deviations from the emission limitations during the reporting period. 5) If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period. | <p>40 CFR 63.11564</p> |

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- c) For each deviation from an emission limitation (emission limit and operating limit) the following information must be included:
- 1) The date and time that each deviation started and stopped.
 - 2) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - 3) The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
 - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
 - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - 7) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.
 - 8) An identification of each air pollutant that was monitored at the affected source.
 - 9) A brief description of the process units.
 - 10) A brief description of the CPMS.
 - 11) The date of the latest CPMS certification or audit
 - 12) A description of any changes in CPMS or controls since the last reporting period.
- d) Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
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| <ul style="list-style-type: none"> e) Each compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. | |
| <ul style="list-style-type: none"> 2. The following records shall be maintained: <ul style="list-style-type: none"> a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv). b) Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii). c) Documentation that identifies the operating parameters and values specified in Table 4 of this subpart and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2). d) A copy of the site-specific monitoring plan required under §63.11563(b) or (g). e) A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable. f) Records of the operating parameter values required in Table 4 of this subpart to show continuous compliance with each operating limit that applies. | <p>40 CFR 63.11564</p> |
| <ul style="list-style-type: none"> 3. The owner/operator is required to record and report the operating temperature of the control device during the performance test and, as required by §60.7(d), maintain a file of the temperature monitoring results for at least two years. | <p>40 CFR 60.473(d)</p> |
| <ul style="list-style-type: none"> 4. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent. | <p>Rule 335-3-16-.05(c)</p> |
| <ul style="list-style-type: none"> 5. Records of daily readings of pressure differential across the fume filter (EP-50e), shall be kept in a form suitable for inspection. | <p>Rule 335-3-16-.05(c)</p> |
| <ul style="list-style-type: none"> 6. Records of the observation date, observation time, emission point designation, emission point operation mode, name of observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. Records shall be maintained for a minimum of five (5) years and shall be made available to the permitting authority upon request. | <p>Rule 335-3-16-.05(c)</p> |

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7. Records documenting the monthly and twelve (12) month rolling total of the amount of roofing shingles (in tons) produced on Roofing Line No. 2 shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20th) day of the month following the last day of each monthly reporting period.

Rule 335-3-16-.05(c)

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Summary Page for Roofing Line No. 3

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|---|--------------|--|---|
| 50 | 7 TPH Line #3 Saturator and Wet Looper with Air Clear | CO | N/A | N/A |
| | | PM | The lesser of 0.30 lb/ton of felt or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| | | VOC | N/A | N/A |
| | | Formaldehyde | N/A | N/A |
| | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| 60 | 4 TPH Felt Rack | PM | The lesser of 0.07 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 (PSD-Avoidance) |
| | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

Provisos for Roofing Line No. 3

| Federally Enforceable Provisos | Regulations |
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| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.01, "Visible Emissions". 3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.04, "Process Industries — General". 4. This source is subject to the applicable requirements of 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | <ol style="list-style-type: none"> 2. Rule 335-3-16-.03 Rule 335-3-4-.01 Rule 335-3-4-.04(1) 40 CFR Part 63 Subpart AAAAAAA |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emission rate from 7 TPH Line #3 Saturator shall not exceed the lesser of 0.30 lbs/ton or the allowable set by Rule 335-3-4-.03. 2. Particulate matter emission rate from the 4 TPH Felt Rack (EP-60) shall not exceed the lesser of 0.07 lbs/ton or the allowable set by Rule 335-3-4-.03. 3. This source shall not discharge into the atmosphere particulates with an opacity greater than that designated as twenty percent (20%) opacity, as determined by a six (6) minute average. During one six (6) minute period in any sixty (60) minute period, this unit may discharge into the atmosphere particulate emissions of an opacity no greater than that designated as forty percent (40%) opacity. 4. The emissions from the Roofing Line No. 3 Saturator and Wet Looper shall be vented to the fume filter. 5. The fume filter shall be properly maintained and operated at all times when the Roofing Line No. 3 Saturator and Wet Looper are in operation. 6. No more than 62,500 tons of saturated felt shall be manufactured on Roofing Line No. 3 per consecutive twelve (12) month period. | <ol style="list-style-type: none"> 40 CFR 63.11561 Rule 335-3-4-.04(1) Rule 335-3-4-.04(1) Rule 335-3-4-.01(1)(a)(b) Rule 335-3-16-.05(a) Rule 335-3-16-.05(a) Rule 335-3-16-.05(a) |

| Federally Enforceable Provisos | Regulations |
|---|-----------------------------------|
| 7. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. Emission Monitoring should be conducted as specified by 40 CFR 63 Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing." | 40 CFR 63.11563) |
| 2. During each calendar week that Line #3 is in service an observation of instantaneous visible emissions from the Line #3 Saturator/Wet Looper (EP-50) and Felt Rack (EP-60) shall be accomplished weekly while in operation. Records should reflect weeks when the units are not in service. | Rule 335-3-16-.05(c)(1) |
| 3. If the instantaneous opacity observed from the Line #3 Saturator/Looper (EP-50) or the Felt Rack (EP-60) is greater than ten(10%) percent, then a visible emission observation shall be conducted within 30 minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 4. If the average opacity observed during the Method 9 visible emission observations is greater than ten percent (10%) then corrective action shall be initiated within one (1) hour, if required. If the Method 9 visible emission observation exceeds ten percent (10%), an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emission are below the limits allowed by General Proviso 29. The subsequent observation shall be completed in accordance with 40 CFR 60, Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |

| Federally Enforceable Provisos | Regulations |
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| 5. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate matter deviation and is no subject to deviation reporting under General Proviso 21. | Rule 335-3-16-.05(c) |
| 6. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c)(1) |
| 7. A deviation of the opacity standard for this unit (when completing periodic monitoring noted above) is defined as an exceedance of the opacity limit defined in this section as measured by a six (6) minute average in accordance with EPA Method 9. | Rule 335-3-16-.05(c) |
| 8. Once per day, the pressure differential across the fume filters (EP-50) shall be observed and recorded. | Rule 335-3-16-.05(c)(1) |
| <u>Recordkeeping and Reporting Requirements</u> | |
| 1. The following compliance report should be submitted to the Department: <ul style="list-style-type: none"> a) The report shall indicate the controlled units covered by the report. b) If there were no deviations from the emissions limitations for the units, the report must contain the following: <ul style="list-style-type: none"> 1) Company name and address. 2) A statement by the Responsible Official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. 3) Date of report and beginning and ending dates of the reporting period. 4) A statement that there were no deviations from the emission limitations during the reporting period. 5) If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period. | 40 CFR 63.11564 |

Federally Enforceable Provisos**Regulations**

- c) For each deviation from an emission limitation (emission limit and operating limit) the following information must be included:
- 1) The date and time that each deviation started and stopped.
 - 2) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - 3) The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
 - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
 - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - 7) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.
 - 8) An identification of each air pollutant that was monitored at the affected source.
 - 9) A brief description of the process units.
 - 10) A brief description of the CPMS.
 - 11) The date of the latest CPMS certification or audit
 - 12) A description of any changes in CPMS or controls since the last reporting period.
- d) Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

| Federally Enforceable Provisos | Regulations |
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| <p>e) Each compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.</p> <p>2. The following records shall be maintained:</p> <p>a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).</p> <p>b) Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii).</p> <p>c) Documentation that identifies the operating parameters and values specified in Table 4 of this subpart and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2).</p> <p>d) A copy of the site-specific monitoring plan required under §63.11563(b) or (g).</p> <p>e) A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable.</p> <p>f) Records of the operating parameter values required in Table 4 of this subpart to show continuous compliance with each operating limit that applies.</p> <p>3. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.</p> <p>4. Records of observation date, observation time, emission point designation, emission point operation mode, name of observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection. All records shall be maintained for a minimum of five (5) years and made available to the permitting authority upon request.</p> <p>5. Records of daily readings of the pressure differential across the fume filter shall be kept in a form suitable for inspection and made available to the permitting authority upon request. These records shall be maintained for a period of five (5) years.</p> | <p>40 CFR 63.11564</p> <p>Rule 335-3-16-.05(c)(2)</p> <p>Rule 335-3-16-.05(c)(2)</p> <p>Rule 335-3-16-.05(c)(2)</p> |

Summary Page for Boiler No.1, Boiler No. 2, Boiler No. 3, and Boiler No. 4

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|----------------------------|-----------------|---|------------------------------------|
| EP-29 | 10.5 MMBtu/ hr Boiler No 2 | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-29 | | VOC | N/A | N/A |
| EP-29 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-29 | | NO _x | N/A | N/A |
| EP-29 | | CO | N/A | N/A |
| EP-29 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-30 | 10.5 MMBtu/ hr Boiler No 1 | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-30 | | VOC | N/A | N/A |
| EP-30 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-30 | | NO _x | N/A | N/A |
| EP-30 | | CO | N/A | N/A |
| EP-30 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

| | | | | |
|-------|----------------------------|-----------------|---|------------------------------------|
| EP-67 | 16.8 MMBtu/hr Boiler No. 3 | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-67 | | VOC | N/A | N/A |
| EP-67 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-67 | | NO _x | N/A | N/A |
| EP-67 | | CO | N/A | N/A |
| EP-67 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |
| EP-68 | 16.8 MMBtu/hr Boiler No. 4 | PM | The lesser of 0.5 lbs/hr or the allowable set by the process weight equation as noted in General Proviso 31 | ADEM Admin. Code R. 335-3-14-.04 |
| EP-68 | | VOC | N/A | N/A |
| EP-68 | | SO ₂ | 0.5% sulfur content of No. 2 fuel oil | ADEM Admin. Code R. 335-3-14-.04 |
| EP-68 | | NO _x | N/A | N/A |
| EP-68 | | CO | N/A | N/A |
| EP-68 | | Opacity | 20%, except one 6-minute interval per hour ≤ 40% | ADEM Admin. Code R. 335-3-4-.01(1) |

Provisos for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4

| Federally Enforceable Provisos | Regulations |
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| <u>Applicability</u> | |
| 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 has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. Boilers No. 3 and No. 4 are subject to the applicable requirements of 40 CFR 60 Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units." | 40 CFR Part 60 Subpart Dc |
| <u>Emission Standards</u> | |
| 1. The boilers are permitted to burn only natural gas, No. 2 fuel oil, or propane as fuel. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 2. The sulfur content of the No. 2 fuel oil burned in the boilers shall not exceed 0.5% by weight. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 3. Particulate matter emission rates from each boiler shall not exceed the lesser of 0.5 lb/hr (2.19 TPY) or that set by Rule 335-3-4-.04. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 4. This 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 this 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. | Rule 335-3-4-.01 |
| 5. Boilers No. 1 and No. 2 shall not be operated simultaneously, except during switchover from one boiler to the other. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 6. Boilers No. 3 and No. 4 may be operated simultaneously. | Rule 335-3-16-.03 |
| 7. Boilers No. 3 and No. 4 shall operate a maximum of 300 hours in a twelve month rolling period when operating on fuel oil. | Rule 335-3-14-.04 (PSD-Avoidance) |
| 8. Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD-Avoidance) |

| Federally Enforceable Provisos | Regulations |
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| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR 60 Appendix A, or another method approved by the Department shall be used in the determination of particulate emissions. | Rule 335-3-1-.05(1)(2) |
| 2. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| 3. The sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight as determined by a test method as approved by the Department. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. An observation of instantaneous visible emissions from the boilers shall be accomplished daily while operating on fuel oil. Records should reflect weeks when the boilers are not in service or when not operating on fuel oil. | Rule 335-3-16-.05(c)(1) |
| 2. If the instantaneous opacity observed from a boiler is greater than ten (10%) percent, then a visible emission observation shall be conducted within thirty (30) minutes of the initial observation in accordance with 40 CFR 60 Appendix A, Method 9, unless the source is shutdown within thirty (30) minutes. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 3. If the average opacity during the Method 9 visible emission observation of a boiler exceeds ten (10%) percent, then corrective action shall be initiated within one (1) hour to identify and correct the problem, if required. If the Method 9 visible emission observation exceeds ten percent (10%), an additional observation shall be taken after completion of corrective actions to demonstrate that the visible emissions are below the limits allowed by General Proviso 29. The subsequent observation shall be completed in accordance with 40 CFR 60, Appendix A, Method 9. The observation period shall be a minimum of twelve (12) consecutive minutes. The average opacity shall be calculated using the maximum six (6) minute average. | Rule 335-3-16-.05(c)(1) |
| 4. An instantaneous opacity observation that exceeds a unit specific opacity limit or corrective action level shall not be considered an opacity or particulate deviation and is not subject to deviation reporting under General Proviso 21. | Rule 335-3-16-.05(c) |

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5. A deviation of the particulate standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9.

Rule 335-3-16-.05(c)

6. A deviation of the opacity standard for this unit (when completing the periodic monitoring noted above) is defined as an exceedance of the corrective action level defined in this section as measured by a 6-minute average in accordance with EPA Method 9.

Rule 335-3-16-.05(c)(1)

Recordkeeping and Reporting Requirements

1. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emission observation report or equivalent.

Rule 335-3-16-.05(c)(1)

2. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a form suitable for inspection.

Rule 335-3-16-.05(c)(1)

3. Records of the dates of operation of these units shall be kept in a form suitable for inspection. These records shall be summarized no later than the twentieth (20th) day of the month following the last day of the monthly reporting period.

Rule 335-3-16-.05(c)(1)

4. Records of the operation hours and the type of fuel burned during those hours of the boilers, as well as records of the sulfur content of the No. 2 fuel oil burned in these units, must be maintained by the facility

5. Monthly hours of operation and fuel usage records shall be summarized no later than the twentieth (20th) day of the month following the last day of each monthly reporting period.

6. Records of the sulfur content of the No. 2 fuel oil burned in these units must be kept in a form suitable for inspection.

7. If utilized, fuel oil supplier certificates shall contain the name of the oil supplier and a statement from the oil supplier that the oil complies with the sulfur content limit.

Rule 335-3-16-.05(c)(1)

8. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request.

Rule 335-3-16-.05(c)

Summary Page for Emergency Generators

Permitted Operating Schedule: 500 Hours

Emission limitations:

| Emission Point # | Description | Pollutant | Emission limit | Regulation |
|------------------|--|-----------|---|------------------------|
| | South Emergency Generator (80 kW) | NOx | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | PM | N/A | N/A |
| | | SO2 | N/A | N/A |
| | | Opacity | See General Provisos | Rule 335-3-4-.01(1) |
| | Star Sever Room Emergency Generator (100 kW) | NOx | 2.0 g/hp-hr | 40 CFR 60 Subpart JJJJ |
| | | CO | 4.0 g/hp-hr | 40 CFR 60 Subpart JJJJ |
| | | VOC | N/A | N/A |
| | | PM | 1.0 g/hp-hr | 40 CFR 60 Subpart JJJJ |
| | | SO2 | N/A | N/A |
| | | Opacity | See General Provisos | Rule 335-3-4-.01(1) |
| | Boiler System Emergency Generator (155.5 kW) and L1 Process Emergency Generator (130 kW) | NOx | Gas: 2.0 g/hp-hr Propane: See Emission Standards | 40 CFR 60 Subpart JJJJ |
| | | CO | Gas: 4.0 g/hp-hr Propane: See Emission Standards | 40 CFR 60 Subpart JJJJ |
| | | VOC | N/A | N/A |
| | | PM | Gas: 1.0 g/hp-hr | 40 CFR 60 Subpart JJJJ |

| | | | | |
|--|--|------------|---------------------------------|------------------------|
| | | | Propane: See Emission Standards | |
| | | SO2 | N/A | N/A |
| | | Opacity | See General Provisos | Rule 335-3-4-.01(1) |
| | Warehouse Smoke Evacuation System Emergency Generators Nos. 1 & 2 (130 kW) | NOx | See Emissions Standards | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | PM | N/A | N/A |
| | | SO2 | N/A | N/A |
| | | Opacity | See General Provisos | Rule 335-3-4-.01(1) |
| | Fire Pump Emergency Generator (200 kW) | NOx + NMHC | 4.0 g/kW-hr (3.0 g/hp-hr) | 40 CFR 60 Subpart IIII |
| | | CO | | |
| | | VOC | | |
| | | PM | 0.2 g/kw-hr (0.15 g/hp-hr) | 40 CFR 60 Subpart IIII |
| | | SO2 | | |
| | | Opacity | See General Provisos | |

Provisos for Emergency Generators

| Federally Enforceable Provisos | Regulations |
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| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. These sources are subject to the applicable requirements of 40 CFR Part 63 Subpart ZZZZ, "National Emissions Standards for Hazardous Air Pollutants Stationary Reciprocating Internal Combustion Engines". 3. The diesel generators are subject to the applicable requirements of 40 CFR Part 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines". 4. The Star Server Room Emergency Generator, the Boiler System Generator, and the L1 Process Generator are subject to the applicable requirements of 40 CFR Part 60 Subpart JJJJ, "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines". | <p>Rule 335-3-16-.03</p> <p>40 CFR Part 63 Subpart ZZZZ</p> <p>40 CFR Part 60 Subpart IIII</p> <p>40 CFR Part 60 Subpart JJJJ</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. The 198-hp, diesel Warehouse Smoke Evacuation Generators Nos. 1 & 2 are subject to the emission standards outlined in 40 CFR §89.112 and §89.113. 2. The 398-hp, diesel Fire Pump Emergency Generator shall not emit more than 4.0 g/kW-hr (3.0 g/hp-hr) of NMHC + NO_x. 3. The 398-hp, diesel Fire Pump Emergency Generator shall not emit more than 0.20 g/kW-hr (0.15 g/hp-hr) of PM. 4. The diesel generators shall only fire diesel fuel which meets the criteria outlined in 40 CFR §80.510(b) 5. The 208-hp Boiler System Emergency Generator and the 208-hp L1 Process Emergency Generator shall meet the emission standards outlined in 40 CFR §63.4231(c) while firing propane. 6. The 208-hp Boiler System Generator, 208-hp L1 Process Generator, and the 151-hp Server Room Generator shall not emit more than 2.0 g/hp-hr of NO_x while firing natural gas. | <p>40 CFR §60.4205(c)</p> <p>40 CFR §60.4202(a)</p> <p>Table 4 to 40 CFR §60.4205(c)</p> <p>Table 4 to 40 CFR §60.4205(c)</p> <p>40 CFR §60.4207(b)</p> <p>40 CFR §60.4233(c)</p> <p>40 CFR §60.4233(e)</p> |

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| 7. The 208-hp Boiler System Generator, 208-hp L1 Process Generator, and the 151-hp Server Room Generator shall not emit more than 4.0 g/hp-hr of CO while firing natural gas. | 40 CFR §60.4233(e) |
| 8. The 208-hp Boiler System Generator, 208-hp L1 Process Generator, and the 151-hp Server Room Generator shall not emit more than 1.0 g/hp-hr of VOC while firing natural gas. | 40 CFR §60.4233(e) |
| 9. If the engines are not operated according to the manufacturer's emission-related written instructions, a maintenance plan shall be developed and the engines shall be operated in a manner consistent with good air pollution control practices for minimizing emissions. | 40 CFR §60.4243(b)(2)(i) |
| 10. The 144-hp South Emergency Generator shall meet the following requirements: a) The oil and filter must be changed every 500 hours of operation or annually, whichever comes first; b) The spark plugs must be inspected every 1,000 hours of operation or annually, whichever comes first, and; c) All hoses and belts must be inspected every 500 hours of operation or annually, whichever comes first, and replace as necessary. | 40 CFR §63.6603(a) |
| 11. The South engine shall be operated at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. | 40 CFR §63.6605(b) |
| 12. The South engine shall be operated and maintained according to the manufacturer's emission-related written instructions or a maintenance plan must be developed which must provide to the extent practicable the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. | 40 CFR §63.6625(e)(3) |
| 13. The idle time of the South engine during startup shall be minimized, and the total startup time shall not exceed 30 minutes. | 40 CFR §63.6625(h) |
| 14. A non-resettable hour meter shall be installed on each engine. | 40 CFR §60.4209(a) 40 CFR §60.4237(b) 40 CFR §63.6625(f) |

| Federally Enforceable Provisos | Regulations |
|---|---|
| 15.To remain emergency engines, the engines shall not operate more than 50 hours per year for purposes other than emergency operation, maintenance and testing, and emergency demand response. | 40 CFR §60.4211(f) 40 CFR §60.4243(d) 40 CFR §63.6640(f) |
| 16.The engines may be operated for up to 100 hours per year for maintenance and readiness testing. | 40 CFR §60.4211(f)(2)(i) 40 CFR §60.4243(d)(2)(i) 40 CFR §63.6640(f)(2) |
| 17.The engines may be operated for up to 50 hours per year in non-emergency situations. These 50 hours count toward the 100 hours allowed for maintenance and readiness testing. | 40 CFR §60.4211(f)(3) 40 CFR §60.4243(d)(3) 40 CFR §63.6640(f)(4) |
| 18.Facility-wide emissions of PM, PM10, and CO shall not exceed 249 tpy in any consecutive twelve month period. | Rule 335-3-14-.04 (PSD Avoidance) |
| <u>Compliance and Performance Test Methods and Procedures</u> | |
| 1. Method 9 of 40 CFR 60 Appendix A shall be used in the determination of opacity. | Rule 335-3-1-.05(1)(2) |
| <u>Emission Monitoring</u> | |
| 1. These sources are subject to no additional specific requirements other than those listed in the General Provisos. | |
| <u>Recordkeeping and Reporting</u> | |
| 1. If the natural gas engines are operated according to the manufacturer's emissions-related written instructions, records shall be kept documenting conducted maintenance to demonstrate compliance with these instructions. | 40 CFR §60.4243(a)(1) 40 CFR §60.4243(b)(1&2) |
| 2. If the natural gas engines are not operated according to the manufacturer's emissions-related written instructions, a maintenance plan and records of conducted maintenance shall be kept on site. | 40 CFR §60.4243(a)(1) 40 CFR §60.4243(b)(1&2) |
| 3. Records of all maintenance performed on the gas engines shall be kept on-site. | 40 CFR §60.4245(a) 40 CFR §63.6655(e) |

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4. Records of the hours of operation for the engines, the reason, and whether it was an emergency or non-emergency shall be kept on-site.

40 CFR §60.4214(b)

40 CFR §60.4245(b)

40 CFR §63.6655(f)

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APPENDIX A

40 CFR 64

Compliance Assurance Monitoring (CAM) Requirements

CAM Plan for Baghouses at Emissions Points EP-32b and EP-33b

| | Parameter No.1 | Parameter No.2 |
|----------------------------|--|--|
| | | |
| I. Indicator | Visible Emissions (VE) | Pressure Differential (ΔP) |
| A. Measurement Approach | 1. Trained and qualified personnel shall perform a weekly VE inspection. If instantaneous visible emissions in excess of ten (10%) percent opacity are observed, a visible emissions observation shall be conducted within 30 minutes in accordance with 40 CFR 60, Appendix A, Method 9. | 1. A properly maintained and operated device shall be utilized to measure ΔP across each baghouse daily. The device shall be located to be easily accessible for inspections by Air Division and plant personnel. |
| | | |
| II. Indicator Range | <ol style="list-style-type: none"> 1. While the unit is in operation, an excursion is defined as an average opacity during the Method 9 visible emission observation which exceeds ten (10%) percent. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. Corrective action must be initiated within one (1) hour following an excursion. | <ol style="list-style-type: none"> 1. While the baghouses controlling Raymond Mills 1 and 2 are operating, an excursion is defined as a ΔP outside of the manufacturer's recommended operating range. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. When a pressure drop excursion occurs, corrective action shall be initiated within one (1) hour to identify and correct the problem. |
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|-------------------------------------|--|--|
| III. Performance Criteria | | |
| A. Data Representativeness | 1. Inspections shall be made at the baghouse. Visual observations performed at emission points (baghouse exhaust stack EP-32b & EP-33b). | 1. ΔP on gauge is the measurement of the pressure differential between inlet and outlet of the baghouse. The minimum accuracy of the device is ± 0.5 in. H ₂ O. |
| B. Verification of Operating Status | N/A | N/A |
| c. QA/QC Practices and Criteria | 1. Trained and qualified personnel shall perform the visible inspection. | 1. The differential pressure gauge shall be calibrated annually. Pressure taps checked weekly for plugging. |
| C. Monitoring Frequency | 1. Visible emissions observation shall be made weekly while each unit is in operation. | 1. ΔP is measured daily while each unit is in operation. |
| D. Data Collection Procedures | 1. Log entries based on weekly VE observation. Observation will be recorded along with the date, time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken. An inspection and cleaning of baghouse shall be done at least annually. Any required maintenance shall be recorded and maintained on site. | 1. Log entries based on gauge readings. ΔP will be recorded daily along with the date, time, and name of the observer (if manually obtained). |
| E. Averaging Period | 1. VE observations are instantaneous. If a Method 9 is required, then observations are a six (6) minute average. | 1. ΔP readings are instantaneous. |