



MAJOR SOURCE OPERATING PERMIT

Permittee: **Mississippi Lime Company**

Facility Name: **Calera Plant**

Facility No.: 411-0054

Location: Calera, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted 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.*

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TABLE OF CONTENTS

GENERAL PERMIT PROVISOS4

SUMMARY PAGE FOR LIMESTONE FEED SYSTEM (AREA 100)20

PROVISOS FOR LIMESTONE FEED SYSTEM (AREA 100)..... 22

Applicability..... 22

Emission Standards 22

Compliance and Performance Test Methods and Procedures..... 22

Emission Monitoring 23

Recordkeeping and Reporting Requirements..... 23

SUMMARY PAGE FOR LIME PLANT (AREA 600)24

PROVISOS FOR LIME PLANT (AREA 600)..... 27

Applicability..... 27

Emission Standards 27

Compliance and Performance Test Methods and Procedures..... 29

Emission Monitoring 30

Recordkeeping and Reporting Requirements..... 33

SUMMARY PAGE FOR SOLID FUEL HANDLING (AREA 700)..... 35

PROVISOS FOR SOLID FUEL HANDLING (AREA 700) 36

Applicability..... 36

Emission Standards 36

Compliance and Performance Test Methods and Procedures..... 36

Emission Monitoring 36

Recordkeeping and Reporting Requirements..... 37

SUMMARY PAGE FOR EXISTING DIESEL ENGINES..... 38

PROVISOS FOR EXISTING DIESEL ENGINES 39

Applicability..... 39

Emission Standards 39

Compliance and Performance Test Methods and Procedures..... 41

Emission Monitoring 42

Recordkeeping and Reporting Requirements..... 43
APPENDIX A.....**44**
APPENDIX B.....**46**

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	<p>Rule 335-3-16-.02(6)</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>Rule 335-3-16-.12(2)</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>Rule 335-3-16-.05(e)</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>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>
<p>5. <u>Termination for Cause</u></p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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)

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</p> <p>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</p> <p>(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;</p> <p>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</p>	
<p>11. <u>Compliance Provisions</u></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p>	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted no later than DATE TBD of each year.</p> <p>(a) The compliance certification shall include the following:</p> <p>(1) The identification of each term or condition of this permit that is the basis of the certification;</p> <p>(2) The compliance status;</p> <p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p>	<p>Rule 335-3-16-.07(e)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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 Enforcement & Toxics Branch EPA Region 4 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>14. <u>Additional Rules and Regulations</u></p>	<p style="text-align: center;">Rule 335-3-16-.13(5)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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>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>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>Rule 335-3-1-.07(1), (2)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <ol style="list-style-type: none"> (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; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (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>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</p>	<p>Rule 335-3-4-.02</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ol style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2.</p>
<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>Rule 335-3-16-.05(c)3.</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> <p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</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>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>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p> <p>Rule 335-3-1-.04</p>

General Permit Provisos

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

General Permit Provisos

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

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</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</p>	<p>40 CFR 64</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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 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</p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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 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> <p style="margin-left: 20px;">A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p style="margin-left: 20px;">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:</p> <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</p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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> <p style="margin-left: 40px;">A. Failed to address the cause of the control device performance problems; or</p> <p style="margin-left: 40px;">B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.</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 style="margin-left: 40px;">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 Rr. 335-3-16-.05(c)3.</p> <p style="margin-left: 40px;">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 style="margin-left: 80px;">(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>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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>(2) General recordkeeping requirements.</p> <p>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).</p> <p>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> <p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any</p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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.</p> <p>B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	
<p>34. <u>Permit Shield</u></p> <p>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 in compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in the application are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>

Summary Page for Limestone Feed System (Area 100)

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
SI100 SI101 3/8PILE	Limestone Stockpiles	Opacity	N/A	Rule 335-3-4-.02
BC108	Belt Conveyor	Opacity	10%	40 CFR §60.672(b)
BC110	Belt Conveyor			
VS112	Scalping Screen			
BN114	Primary Crusher Stone Bin			
FE116	Vibratory Feeder			
BC120	Belt Conveyor			
VS125	Primary Screen			
BC127	Belt Conveyor			
BC131	Belt Conveyor			
BC148	Belt Conveyor			
BC113	Belt Conveyor			
VS124	Primary Screen			
BC128	Belt Conveyor			
BC132	Belt Conveyor			
BC152	Belt Conveyor			
BC159	Belt Conveyor			
SI172	Silo			
SI164	Silo			
BC156	Belt Conveyor			

BC158	Belt Conveyor			
SI168	Silo			
SI160	Silo			
BC176	Belt Conveyor			
BC178	Belt Conveyor			
BC180	Belt Conveyor			
VS182	Screen			
BC186	Belt Conveyor			
BC188	Belt Conveyor			
BC190	Belt Conveyor			
BN801	Preheater Bin			
CR118	Primary Crusher	Opacity	15%	40 CFR §60.672(b)
Area 100	All sources listed above	PM	N/A	N/A

**All sources within this system are fugitive emission sources.*

Provisos for Limestone Feed System (Area 100)

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16.03, “ <i>Major Source Operating Permits</i> .”	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02, “ <i>Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions</i> ”.	Rule 335-3-4-.02(1), (3)
3. These sources (except the limestone stockpiles) are subject to the applicable provisions of 40 CFR Part 60 Subpart OOO, “ <i>Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
4. These sources (except the limestone stockpiles) are subject to the applicable provisions of 40 CFR Part 60 Subpart A, “ <i>General Provisions</i> ”, as listed in Table 1 of 40 CFR 60 Subpart OOO.	Rule 335-3-10-.02(1) 40 CFR §60.670(f)
<u>Emission Standards</u>	
1. Precautions shall be taken to prevent fugitive dust from emanating from stockpiles, transfer points, conveyors, feeders, hoppers, and any other equipment within the Limestone Feed System.	Rule 335-3-4-.02(1), (3)
2. Fugitive PM emissions from the crusher shall not exceed 15% opacity.	40 CFR §60.672(b) Table 3
3. Fugitive PM emissions from any screening operation, storage bin, or conveyor transfer point shall not exceed 10% opacity.	40 CFR §60.672(b) Table 3
<u>Compliance and Performance Test Methods and Procedures</u>	
1. These sources are subject to the applicable requirements of 40 CFR Part 60 Subpart OOO, “ <i>Test methods and procedures</i> ”, regarding opacity testing.	40 CFR §60.675(c), (d) (e), (g), (i)
2. If testing is required, Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
3. If testing is required, Method 22 of 40 CFR Part 60, Appendix A, shall be used to determine the presence of fugitive or instantaneous visible emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos

Regulations

Emission Monitoring

1. The opacity of emissions from these sources shall be monitored in accordance with the following:
 - (a) An instantaneous visible emissions observation shall be conducted at least weekly during daylight hours while the affected source is in operation.
 - (b) If any visible emissions are observed during the instantaneous visible emissions observation, a six (6) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR Part 60, Appendix A, within one (1) hour of the initial observation, unless the source is immediately shut down.
 - (c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.
 - (d) After corrective action has been completed, a follow-up instantaneous visible emissions observation shall be conducted to ensure that no visible emissions are present.

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

Recordkeeping and Reporting Requirements

1. These sources are subject to the applicable requirements of 40 CFR Part 60 Subpart OOO, *“Reporting and recordkeeping”*.
2. The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR §60.672(b).
3. Records documenting the observation date, observation time, emission point designation, name of the observer, expiration date of observer’s certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.
4. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form, or a similar format approved by the Department. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.

40 CFR §60.676

40 CFR §60.676(f)

Rule 335-3-16-.05(c)(2)

Rule 335-3-16-.05(c)(2)

Summary Page for Lime Plant (Area 600)

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
600	Lime Kiln w/ Baghouse and SNCR	PM	0.30 kg/Mg (0.60 lb/ton) stone feed	40 CFR §60.342(a)(1)
		PM	0.02 gr/acf 34.5 lb/hr 151.1 TPY	Rule 335-3-14-.04 (Anti-PSD)
		CO	1.65 lb/tpf 346 tons/rolling 12-months	Rule 335-3-14-.04 (Anti-PSD)
		NO _x	3.2 lb/tpf 672 tons/rolling 12-months	Rule 335-3-14-.04 (Anti-PSD)
		SO ₂	3.295 lb/tpf 692 tons/rolling 12-months Fuel sulfur content shall not exceed 3% by weight	Rule 335-3-14-.04 (Anti-PSD)
		HCl	0.045 lb/tpf 9.5 TPY	40 CFR §60.7081 MACT Avoidance
		Opacity	15%	40 CFR §60.342(a)(2)
601	Lime Cooler Area	PM	0.02 gr/acf 0.77 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
602	Lime Kiln Dust Tank	PM	0.02 gr/acf 0.26 lb/hr	Rule 335-3-4-.04
603	Kiln Discharge Area	PM	0.02 gr/acf 1.54 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
604	Bucket Elevator (Top Area)	PM	0.02 gr/acf	Rule 335-3-14-.04

			1.37 lb/hr	(Anti-PSD)
605	Product Screens Area	PM	0.02 gr/acf 1.71 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
606	Silo Penthouse Area	PM	0.02 gr/acf 1.03 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
607	Lime Kiln Run Silo	PM	0.02 gr/acf 1.03 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
608	Lime Rejects Bin	PM	0.02 gr/acf 0.42 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
609	Lime Products Silo	PM	0.02 gr/acf 1.20 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
610	Product Silos Reclaim	PM	0.02 gr/acf 1.20 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
611	Reclaim Elevator Discharge	PM	0.02 gr/acf 0.86 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
612	Reclaim Screen Area	PM	0.02 gr/acf 1.29 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
615-2	Storage Bin 9	PM	0.02 gr/acf 0.26 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
615-1	Storage Bin 10	PM	0.02 gr/acf 0.26 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
616	Bin 9 & 10 Truck Feeders	PM	0.02 gr/acf 0.6 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
617	Bin 9 & 10 Rail Feeders	PM	0.02 gr/acf 0.55 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
618	Truck Loading	PM	0.02 gr/acf 1.29 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
619	Rail Loading	PM	0.02 gr/acf 1.29 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
620	Lime Fines Storage Tanks	PM	0.02 gr/acf 0.42 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
621	Ball Mill Cyclone & Air Separator System	PM	0.02 gr/acf 1.37 lb/hr	Rule 335-3-14-.04 (Anti-PSD)

623	Lime Hydrate System	PM	0.02 gr/acf 2.28 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
624	Hydrate Loadout Spout	PM	0.02 gr/acf 1.03 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
625	West Bulk Loadout Tank	PM	0.02 gr/acf 0.51 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
622	Lime Hydrator	PM	$E = 3.59P^{0.62}$ (P < 30 TPH) OR $E = 17.31P^{0.16}$ (P ≥ 30 TPH)	Rule 335-3-4-.04(1)
Area 600	All sources listed above			
Area 600	All sources listed above	Opacity	20%	Rule 335-3-4-.01

Provisos for Lime Plant (Area 600)

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the provisions of ADEM Admin. Code r. 335-3-16.03, “ <i>Major Source Operating Permits.</i> ”	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries, General</i> ”.	Rule 335-3-4-.04(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01(1)
4. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 [Anti-PSD]
5. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of 40 CFR Part 63 Subpart AAAAA, “ <i>National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants.</i> ”	40 CFR §63.7081(a)
6. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR Part 60 Subpart HH, “ <i>Standards of Performance for Lime Manufacturing Plants.</i> ”	Rule 335-3-10-.02(34) 40 CFR §60.340(a)
7. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR Part 60 Subpart A, “ <i>General Provisions</i> ”.	40 CFR §60.1
8. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”.	40 CFR Part 64
<u>Emission Standards</u>	
1. Visible emissions from these sources shall not exceed the opacity set by General Permit Proviso No. 29.	Rule 335-3-4-.01(1)
2. Visible emissions from the Lime Kiln (600) shall not exceed 15% opacity, as determined by a 6-minute average.	40 CFR §60.342(a)(2)
3. Particulate matter (PM) emissions from these sources shall not exceed the allowable set by General Permit Proviso No. 31.	Rule 335-3-4-.04(1)

Federally Enforceable Provisos

Regulations

- 4. PM emissions from the Lime Kiln (600) shall not exceed 0.30 kilograms per megagram (0.60 pounds per ton (lb/ton)) of stone feed. 40 CFR §60.342(a)(1)
- 5. PM emissions from the Lime Kiln (600) shall not exceed 0.02 grains per actual cubic foot (gr/acf), 34.5 pounds per hour (lb/hr), and 151.1 tons per year (TPY). Rule 335-3-14-.04 [Anti-PSD]
- 6. PM emissions from the following sources shall not exceed 0.02 gr/acf or the corresponding lb/hr values : Rule 335-3-14-.04 [Anti-PSD]

Emission Point #	Description	Emission Limit (lb/hr)
EU601	Lime Cooler Area	0.77
EU602	Lime Kiln Dust Tank	0.26
EU603	Kiln Discharge Area	1.54
EU604	Bucket Elevator (Top Area)	1.37
EU605	Product Screens Area	1.71
EU606	Silo Penthouse Area	1.03
EU607	Lime Kiln Run Silo	1.03
EU608	Lime Rejects Bin	0.42
EU609	Lime Product Silos	1.20
EU610	Product Silos Reclaim	1.20
EU611	Reclaim Elevator Discharge	0.86
EU612	Reclaim Screen Area	1.29
EU615-1	Lime Bin 10	0.26
EU615-2	Lime Bin 9	0.26
EU616	Bin 9 & 10 Truck Feeders	0.60
EU617	Bin 9 & 10 Rail Feeders	0.55
EU618	Truck Loading	1.29
EU619	Rail Loading	1.29
EU620	Lime Fines Storage Tanks	0.42
EU621	Ball Mill Cyclone & Air Separator	1.37

Federally Enforceable Provisos

Regulations

	System	
EU623	Lime Hydrate System	2.28
EU624	Hydrate Loadout Spout	1.03
EU625	West Bulk Loadout tank	0.51

- 7. Sulfur dioxide (SO₂) emissions from the Lime Kiln (600) shall not exceed 3.295 pounds per ton of lime produced (lb/tp) and 692 tons per rolling 12-month period. Rule 335-3-14-.04 [Anti-PSD]
- 8. The sulfur content of the fuel blend delivered to the Lime Kiln burner shall not exceed 3.0% by weight. Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-15-.05
- 9. Nitrogen oxide (NO_x) emissions from the Lime Kiln (600) shall not exceed 3.20 lb/tp and 672 tons per rolling 12-month period. Rule 335-3-14-.04 [Anti-PSD]
- 10. Carbon monoxide (CO) emissions from the Lime Kiln (600) shall not exceed 1.65 lb/tp and 346 tons per rolling 12-month period. Rule 335-3-14-.04 [Anti-PSD]
- 11. The production of lime in the Lime Kiln shall not exceed 420,000 tons in any consecutive 12-month period. Rule 335-3-14-.04 [Anti-PSD]
- 12. Hydrogen chloride (HCl) emissions from the Lime Kiln (600) shall not exceed 0.045 lb/tp (9.5 TPY). 40 CFR §63.7081(a) [MACT Avoidance]
- 13. The Lime Kiln shall not discharge to the atmosphere any single hazardous air pollutant (HAP) in excess of 9.5 TPY or any combination of total HAPs in excess of 24.5 TPY. 40 CFR §63.7081(a) [MACT Avoidance]

Compliance and Performance Test Methods and Procedures

- 1. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR Part 60 Subpart HH, "Test methods and procedures", for particulate matter (PM) and opacity emissions testing. 40 CFR §60.344
- 2. If testing is required, Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of PM emissions. Rule 335-3-1-.05
- 3. If testing is required, Method 6 of 40 CFR Part 60, Appendix A, shall be used in the determination of SO₂ emissions. Rule 335-3-1-.05
- 4. If testing is required, Method 7 or 7E of 40 CFR Part 60, Appendix A, shall be used in the determination of NO_x emissions. Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
5. If testing is required, Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
6. If testing is required, Method 10 of 40 CFR Part 60, Appendix A, shall be used in the determination of CO emissions.	Rule 335-3-1-.05
7. If testing is required, Method 22 of 40 CFR Part 60, Appendix A, shall be used in the determination of instantaneous visible emissions.	Rule 335-3-1-.05
8. If testing is required, Method 320 or 321 of 40 CFR Part 60, Appendix A, or another method as described in 40 CFR §63.7142, shall be used in the determination of HCl emissions.	Rule 335-3-1-.05 40 CFR §63.7142
9. The sulfur content of the fuel blend delivered to the kiln burner shall be measured in accordance with ASTM D4239-00.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. Emission monitoring requirements under 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, can be found in Appendix A.	40 CFR Part 64
2. The Permittee shall conduct particulate matter (PM) emissions testing for the Lime Kiln (600) annually, at intervals not to exceed 12 months.	Rule 335-3-16-.05(c)(1)
(a) Performance tests may be conducted less often if the Permittee meets the following conditions:	
(i) At least two (2) consecutive performance tests demonstrate that the emission level for the pollutant is no greater than 75% of the emissions limits.	
(ii) There are no changes in the operation of the affected source or air pollution control equipment that could increase emissions.	
(b) If the above conditions are met, the Permittee may conduct a performance test no more than 30 months following the previous performance test for the pollutant.	
(c) If the Permittee conducts less frequent testing as provided above and a performance test results in emissions that exceed 75% of the emission limit, the Permittee shall conduct annual performance testing at intervals not to exceed 12 months until the qualification for less frequent testing is met.	

Federally Enforceable Provisos**Regulations**

- | Federally Enforceable Provisos | Regulations |
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| 3. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR Part 60 Subpart HH, <i>“Monitoring of emissions and operations”</i> . | 40 CFR §60.343 |
| 4. The Permittee shall calibrate, maintain, and operate a continuous opacity monitoring system (COMS) to measure the opacity from the Lime Kiln (600) baghouse exhaust. The COMS shall comply with performance specifications as stated in 40 CFR Part 60, Appendix B. | 40 CFR §60.343(a)
Rule 335-3-16-.05(c)(1) |
| 5. Should visible emissions from the Lime Kiln (600) exceed a 6-minute average of 15% opacity, as determined by COMS, corrective measures shall be taken within 2 hours to reduce visible emissions to below 15% opacity. | Rule 335-3-16-.05(c)(1) |
| 6. Should the net opacity exceedances (as determined by COMS) from the Lime Kiln (600) exceed 5% of the total operating time of the Lime Kiln during any calendar quarter, the Department may require additional PM emissions testing to be performed prior to the end of the next calendar quarter. | Rule 335-3-16-.05(c)(1) |
| 7. <i>For sources within this system:</i>

(a) The Permittee shall conduct an instantaneous visual check of each emission point within the Lime Plant (Area 600), with the exception of the Lime Kiln (600), at least once per week. If instantaneous visible emissions greater than approximately 15% opacity are noted, a visible emissions observation in accordance with EPA Reference Method 9 shall be conducted within 1 hour of the initial observation of visible emissions. The Method 9 test shall be performed for at least 12 minutes.

(b) If the Method 9 test results in greater than 15% opacity, corrective action shall be initiated within 2 hours of the performance of the Method 9 test in order to reduce emissions. After the corrective action has been completed, the Permittee shall perform another visual check to ensure the visible emissions have been reduced. If any Method 9 test results in greater than 20% opacity (as determined by a 6-minute average), the Department shall be notified within 24 hours (or 1 working day) of the performance of the Method 9 test. | Rule 335-3-16-.05(c)(1) |

Federally Enforceable Provisos**Regulations**

- | Federally Enforceable Provisos | Regulations |
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| 8. The Permittee shall maintain a monthly summary of each supplier certification that is received. The supplier will perform a weekly composite sample of the solid fuel blend and provide a certification indicating the sulfur content (percent by weight). Each supplier certification should be verified to meet the 3.0% by weight sulfur requirement. In the event the supplier certification is not available, a composite sample of the solid fuel blend shall be collected and analyzed for sulfur content on a dry basis. | Rule 335-3-16-.05(c)(1) |
| 9. Sulfur dioxide (SO ₂) emissions testing shall be conducted at least once prior to Permit renewal, but no more than 60 months from the previous test. | Rule 335-3-16-.05(c)(1) |
| 10. Hydrogen chloride (HCl) emissions testing shall be conducted at least once prior to Permit renewal, but no more than 60 months from the previous test. | Rule 335-3-16-.05(c)(1) |
| 11. Nitrogen oxide (NO _x) and carbon monoxide (CO) emissions testing shall be conducted at least once prior to Permit renewal, but no more than 60 months from the previous test. During the emissions tests, the maximum fuel firing rate (3-hour averaging period) and the minimum O ₂ level (3-hour averaging period) shall be recorded. | Rule 335-3-16-.05(c)(1) |
| 12. If the fuel firing rate (3-hour averaging period) for the Lime Kiln exceeds 110% of the fuel firing rate (3-hour averaging period) as measured during the most recent CO and NO _x emissions tests which demonstrate compliance with the applicable standards, the fuel feed rate shall be reduced below 110% of the test rate. The Permittee shall document each such exceedance and notify the Department within 48 hours or 2 business days of the exceedance. The Permittee may establish a new fuel firing rate limit by performing additional NO _x and CO testing. | Rule 335-3-16-.05(c)(1) |
| 13. If the O ₂ level (3-hour averaging period) for the Lime Kiln is recorded as less than 75% of the lowest level (3-hour averaging period) as measured during the most recent CO and NO _x emissions test which demonstrated compliance with the applicable standards, the Permittee shall investigate the cause and initiate corrective action within 2 hours in order to increase the O ₂ level (3-hour averaging period). | Rule 335-3-16-.05(c) (1) |
| 14. The following table summarizes the compliance demonstration requirements for each kiln pollutant with an emission limit: | |

Federally Enforceable Provisos

Regulations

Pollutant	Compliance Method
PM	Annual testing using EPA Method 5, with an alternative frequency listed in Proviso 2.
CO	Stack testing using EPA Method 10 prior to operating permit renewal
NO _x	Stack test using EPA Method 7 or 7E prior to operating permit renewal
SO ₂	-Solid fuel supplier certification on sulfur content, or solid fuel sulfur analysis -Stack test using EPA Method 6 prior to operating permit renewal
HCl	Stack test using EPA Method 320 or 321 or another method listed in 40 CFR §63.7142 prior to permit renewal
Opacity	Continuous Opacity Monitoring System (COMS)

Recordkeeping and Reporting Requirements

1. A written report of the excess opacity emissions, as defined below, shall be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports shall include the following information:
 - (a) The magnitude of excess emissions over 15% opacity computed from 6-minute averages (data recorded during periods of COMS breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages).
 - (b) The date and time of commencement and completion of each period of excess emissions.
 - (c) The nature and cause of the excess emissions (if known) and the corrective actions taken or preventative measures adopted.

Rule 335-3-16-.05(c)(3)
40 CFR §60.343(e)

Federally Enforceable Provisos	Regulations
<p>(d) The date and time identifying each period during which the COMS was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.</p>	
<p>(e) When no excess emissions have occurred and the COMS was not inoperative or did not require repairs or adjustments, such information shall be stated in the report.</p>	
<p>2. All the original data charts, performance evaluations, calibration checks, adjustments, maintenance records, and other information regarding the opacity monitoring system shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p>	Rule 335-3-16-.05(c)(2)
<p>3. Records of all emissions tests shall be maintained in a form suitable for inspection on site for a period of at least 5 years.</p>	Rule 335-3-16-.05(c)(2)
<p>4. The Permittee shall maintain records of the lime production in the Lime Kiln in a form suitable for inspection for a period of at least 5 years. The records should indicate each month's production as well as the total lime production for each consecutive 12-month period.</p>	Rule 335-3-16-.05(c)(2)
<p>5. Records of all fuel supplier certifications, including sulfur content and fuel sulfur analyses, shall be maintained in a permanent form suitable for inspection for a period of at least 5 years.</p>	Rule 335-3-16-.05(c)(2)
<p>6. If a composite analysis is performed and the results show sulfur content greater than 3.0%, the Department shall be notified within 24 hours.</p>	Rule 335-3-16-.05(c)(3)
<p>7. Records of all visual checks, corrective actions taken and follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.</p>	Rule 335-3-16-.05(c)(2)
<p>8. Records of the fuel firing rate (3-hour averaging period) and O₂ level (3-hour averaging period) during all periods of Lime Kiln operation shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.</p>	Rule 335-3-16-.05(c)(2)

Summary Page for Solid Fuel Handling (Area 700)

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
CP01	Coal Pile or Solid Fuel Pile	Opacity	20%	40 CFR §60.254(a)
FE081	North Coal Feeder			
FE082	South Coal Feeder			
BC083	Belt Conveyor			
CR084	Roll Crusher			
BC085	Belt Conveyor			
BC087	Belt Conveyor			
BN866	Coal Storage Bin			
BN867	Coal Storage Bin			
WF868	Weigh Feeder			
WF869	Weigh Feeder			
BC870	Belt Conveyor			
RL871	Coal Mill			
Area 700	All sources listed above	PM	N/A	N/A

**All sources within this system are fugitive emission sources.*

Provisos for Solid Fuel Handling (Area 700)

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the provisions of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02, “ <i>Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions</i> ”.	Rule 335-3-4-.02(1), (3)
3. These sources are subject to the applicable requirements of 40 CFR Part 60 Subpart Y, “ <i>Standards of Performance for Coal Preparation and Processing Plants</i> .”	Rule 335-3-10-.02(25) 40 CFR §60.250
<u>Emission Standards</u>	
1. No source associated with the Solid Fuel Handling and Storage System Area shall discharge to the atmosphere fugitive emissions greater than 20 % opacity.	40 CFR §60.254(a)
2. Precautions shall be taken to prevent fugitive dust from emanating from transfer points, conveyors, feeders, bins, and any other equipment within the Solid Fuel Handling Area.	Rule 335-3-4-.02(1), (3)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. If testing is required, Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05 40 CFR §60.257(a)
2. If testing is required, Method 22 of 40 CFR Part 60, Appendix A, shall be used to determine the presence of fugitive and instantaneous visible emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The opacity of emissions from these sources shall be monitored in accordance with the following:	Rule 335-3-16-.05(c)(1)
(a) An instantaneous visible emissions observation shall be conducted at least weekly during daylight hours while the affected source is in operation.	
(b) If any visible emissions are observed during the instantaneous visible emissions observation, a six (6) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within	

Federally Enforceable Provisos

Regulations

one (1) hour of the initial observation, unless the source is immediately shut down.

(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.

(d) After corrective action has been completed, a follow-up instantaneous visible emissions observation shall be conducted in order to ensure that no visible emissions are present.

Recordkeeping and Reporting Requirements

1. Records documenting the observation date, observation time, emission point designation, name of observer, expiration date of observer’s certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.

Rule 335-3-16-.05(c)(2)

2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form, or a similar format approved by the Department. These records shall be maintained for a period of at least five (5) 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 Existing Diesel Engines

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
KI812	125 HP Auxiliary Jacking Diesel Engine	PM	N/A	N/A
		SO ₂	N/A	N/A
		NO _x	N/A	N/A
ME024	170 HP Emergency Diesel Engine	CO	N/A	N/A
		VOC	N/A	N/A
		Opacity	20%	Rule 335-3-4-.01(1)

Provisos for Existing Diesel Engines

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>“Control of Particulate Emissions – Visible Emissions”</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of 40 CFR Part 63 Subpart ZZZZ, <i>“National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines”</i> .	Rule 335-3-11-.06(103) 40 CFR §63.6585(c)
4. These sources are subject to the applicable requirements of Subpart A of 40 CFR Part 63, <i>“General Provisions”</i> , as listed in Table 8 of Subpart ZZZZ.	Rule 335-3-11-.06(1) 40 CFR §63.6665
<u>Emission Standards</u>	
1. Visible emissions from these sources shall not exceed the opacity set by ADEM Admin. Code r. 335-3-4-.01(1).	Rule 335-3-4-.01(1)
2. These units are subject to the applicable requirements listed in Table 2d of 40 CFR Part 63 Subpart ZZZZ.	40 CFR §63.6603(a)
3. The Permittee must operate and maintain these units according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR §63.6625(e)(3), (4)
4. The Permittee must install a non-resettable hour meter on ME024 if one is not already installed.	40 CFR §63.6625(f)
5. The facility must operate the emergency stationary RICE (ME024) according to the requirements in 40 CFR §63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §63.6640(f)(1) through (4), is prohibited. If the facility does not operate the engine according to the requirements in 40 CFR §63.6640(f)(1) through (4), the engine will not be considered an	40 CFR §63.6640(f)

Federally Enforceable Provisos**Regulations**

emergency engine under this subpart and must meet all requirements for non-emergency engines.

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|---|----------------------------|
| (a) There is no time limit on the use of emergency stationary RICE in emergency situations. | 40 CFR §63.6640(f)(1) |
| (b) The facility may operate emergency stationary RICE for any combination of the purposes specified in §63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by §63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). | 40 CFR §63.6640(f)(2) |
| (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. | 40 CFR §63.6640(f)(2)(i) |
| (ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. | 40 CFR §63.6640(f)(2)(ii) |
| (iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. | 40 CFR §63.6640(f)(2)(iii) |
| (c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR §63.6640(f)(2). Except as provided in 40 CFR §63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric | 40 CFR §63.6640(f)(4) |

Federally Enforceable Provisos	Regulations
grid or otherwise supply power as part of a financial arrangement with another entity.	
(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:	40 CFR §63.6640(f)(4)(ii)
1. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.	40 CFR §63.6640(f)(4)(ii)(A)
2. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.	40 CFR §63.6640(f)(4)(ii)(B)
3. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.	40 CFR §63.6640(f)(4)(ii)(C)
4. The power is provided only to the facility itself or to support the local transmission and distribution system.	40 CFR §63.6640(f)(4)(ii)(D)
5. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.	40 CFR §63.6640(f)(4)(ii)(E)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. If testing is required, Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter (PM) emissions.	Rule 335-3-1-.05
2. If testing is required, Method 6 or 6A of 40 CFR Part 60, Appendix A, shall be used in the determination of sulfur dioxide (SO ₂) emissions.	Rule 335-3-1-.05
3. If testing is required, Method 7 of 40 CFR Part 60, Appendix A, shall be used in the determination of nitrogen oxide (NO _x) emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
4. If testing is required, Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
5. If testing is required, Method 10 of 40 CFR Part 60, Appendix A, shall be used in the determination of carbon monoxide (CO) emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
<p>1. The Permittee shall perform the following activities for KI812:</p> <ul style="list-style-type: none"> (a) Change oil and filter every 1,000 hours of operation or annually, whichever comes first; (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. (d) During startup the Permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <p>Or utilize an oil analysis program as described in 40 CFR §63.6625(i).</p>	40 CFR Part 63 Subpart ZZZZ Table 2d(1)
<p>2. The Permittee shall perform the following activities for ME024:</p> <ul style="list-style-type: none"> (a) Change oil and filter every 500 hours of operation or annually, whichever comes first; (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <p>Or utilize an oil analysis program as described in 40 CFR §63.6625(i).</p>	40 CFR Part 63 Subpart ZZZZ Table 2d(4)

Federally Enforceable Provisos**Regulations**

6. If an oil analysis program is utilized for a stationary compression ignition engine, the Permittee must perform the oil analysis at the same frequency specified above for changing the oil. The Permittee must at a minimum analyze the following parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.

40 CFR §63.6625(i)

Recordkeeping and Reporting Requirements

1. The Permittee must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

40 CFR §63.6625(i)

2. The Permittee must keep records of the maintenance conducted on these units in order to demonstrate that the Permittee operated and maintained these units and after-treatment control device (if any) according to the maintenance plan.

40 CFR §63.6655(e)

3. The Permittee must keep records of the hours of operation for ME024 recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

40 CFR §63.6655(f)

4. Records must be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). The Permittee must keep each record readily accessible in hard copy or electronic form for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

40 CFR §63.6660(a)-(c)

APPENDIX A

COMPLIANCE ASSURANCE MONITORING (CAM)

**Compliance Assurance Monitoring (CAM) Plan
for Emission Unit 600 (Lime Kiln)**

	Indicator 1
I. Indicator	Opacity (Measured with a Continuous Opacity Monitoring System [COMS])
II. Indicator Range	Opacity should be 15% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods.
III. Performance Criteria	
A. Data Representativeness	The COMS is located at the baghouse outlet. The system has a minimum accuracy of +/- 3% over the range of the monitor.
B. Verification of Operation Status	N/A
C. QA/QC Practices & Criteria	Calibrate and maintain COMS in accordance with manufacturer's specification and 40 CFR §60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.
D. Monitoring Frequency	
Data Collection Procedures	Continuously recorded electronically.
Averaging Period	6-minute averages

APPENDIX B

NOTIFICATION & REPORTING REQUIREMENTS SUMMARY

Facility Notification & Reporting Summary

Facility/Emission Unit	Requirement	Due Date
Facility	Semiannual Monitoring Reports (SMR)	July 15 th January 13 th
Facility	Annual Compliance Certification (ACC)	January 13 th
Facility	Annual Emissions Report and Fees (AEERS)	Emissions by June 30 th and fees by October 31 st
Facility	Permit Deviation Notifications	Within 48 hours or 2 working days
Facility	Control Device Shut Down for Maintenance	At least 24 hours prior to scheduled shutdown
Facility	Control Equipment Malfunction Report	Within 24 hours or next business day
Facility	Stack Testing Notification	At least 10 days in advance
Facility	Stack Testing Report	Within 30 days of completion of test
Lime Kiln	Quarterly COMS Report	April 30 th , July 31 st , October 31 st , and January 31 st
Lime Kiln	Quarterly COMs Audit	Performed each calendar quarter
Lime Kiln	Annual COMs Clear Path	Performed each calendar year