



MAJOR SOURCE OPERATING PERMIT

Permittee: **United States Gypsum Company**

Facility Name: **Bridgeport Plant**

Facility No.: 705-0041

Location: Bridgeport, Alabama

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

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

Issuance Date: *DRAFT*

Effective Date: *DRAFT*

Expiration Date: *DRAFT*

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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>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p>	Rule 335-3-16-.05(f)

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<p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	Rule 335-3-16-.05(g)
<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	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</p>	Rule 335-3-16-.07(a)

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<p>responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none">(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), 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>Rule 335-3-16-.07(b)</p>
<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>	

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<p>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>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>

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<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>	Rule 335-3-1-.08
<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> <ul 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 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>	Rule 335-3-4-.02

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<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>	Rules 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>	Rule 335-3-16-.05(c)3.

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<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	<p>Rule 335-3-1-.05(3) Rule 335-3-1-.04(1)</p>

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<p>nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</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>	Rule 335-1-7-.04
<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>	Rule 335-3-1-.04(1)
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166.</p>	40 CFR Part 82

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<p>Reports shall be submitted to the US EPA and the Department as required.</p>	
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in §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>40 CFR Part 68</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>Rules 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-</p>	<p>Rule 335-3-4-.01(1)</p>

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<p>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>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 Rule 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 Rule 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<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 Rule 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) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit</p>	<p>40 CFR 64</p> <p>40 CFR 64.7</p>

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<p>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) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>(4) <i>Response to excursions or exceedances.</i> (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</p>	

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<p>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) <i>Documentation of need for improved monitoring.</i> After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance 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>40 CFR 64.8</p>

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<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> <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).	

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<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; orb. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p>	
<p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) <i>General reporting requirements</i></p> <ul style="list-style-type: none">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.b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin.	40 CFR 64.9

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<p>Code r. 335-3-16-.05(c)3. and the following information, as applicable:</p> <ol style="list-style-type: none">i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); andiii. 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>(2) <i>General recordkeeping requirements.</i></p> <ol 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	

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<p>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>Nothing in this part shall:</p> <ol style="list-style-type: none">a. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.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.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>40 CFR 64.10</p>

Summary Page for Milling Process (Lines A & B)

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	
EP-3	Dryer Mill A Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)	
		Opacity	10%	40 CFR Part 60 Subpart UUU	
	Gypsum Dryer Feed Bin A	PM*	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)	
		Opacity	7%	40 CFR Part 60 Subpart OOO	
	Hammer Mill A	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)	
		Opacity	7%	40 CFR Part 60 Subpart OOO	
	EP-4	Dryer Mill B Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
			Opacity	10%	40 CFR Part 60 Subpart UUU
Gypsum Dryer Feed Bin B		PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)	
		Opacity	7%	40 CFR Part 60 Subpart OOO	
Hammer Mill B		PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)	
		Opacity	7%	40 CFR Part 60 Subpart OOO	

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Milling Process (Lines A & B)

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These units 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 units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions - Visible Emissions</i> ” as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ” as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. These units 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. The dryers and corresponding baghouses are subject to the applicable requirements of 40 CFR 60 Subpart UUU, “ <i>New Source Performance Standards for Calciners and Dryers in Mineral Industries</i> ”.	Rule 335-3-10-.02(73) 40 CFR §60.730(c)
6. These units are subject to the applicable requirements of 40 CFR 60 Subpart OOO, “ <i>Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
7. These units are subject to the applicable requirements of 40 CFR 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)
8. The Dry Mills, Feed Bins, and Hammermills are subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The owner or operator must meet an opacity limit of seven percent (7%) for each affected dry control device.	40 CFR §60.672(a)
2. The owner or operator must meet a fugitive emissions limit of ten percent (10%) opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671).	40 CFR §60.672(b)

Federally Enforceable Provisos	Regulations
<p>3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:</p> <p>(a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and</p> <p>(b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.</p>	40 CFR §60.672(e)
<p>4. No emissions shall be discharged into the atmosphere from an affected baghouse that exhibit greater than ten percent (10%) opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.</p>	40 CFR §60.732(b)
<p>5. Particulate matter emissions exhausted from each baghouse associated with Lines A & B shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).</p>	<p>Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)</p>
<p>6. This facility is limited to the use of Natural Gas as the only fuel source to fire any burner.</p>	Rule 335-3-14-.04 [Anti-PSD]
<p>7. The total amount of natural gas consumed at this facility shall not exceed 3.5 x 10⁹ cubic feet in any consecutive 12-month period.</p>	Rule 335-3-14-.04 [Anti-PSD]
<p>8. These units shall meet the following opacity standards:</p> <p>(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.</p> <p>(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.</p>	<p>Rule 335-3-4-.01(1)(a) Rule 335-3-4-.01(1)(b)</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>1. Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in Appendix A. Alternatively, those methods specified in §60.675 and/or §60.736 may be referenced.</p>	<p>40 CFR §60.675 40 CFR §60.736</p>

Federally Enforceable Provisos	Regulations
2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.	Rule 335-3-1-.05
3. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department, shall be used in the determination of the opacity.	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 for the Feed Bins, Dryer Mills, and Hammer Mills.	40 CFR Part 64
2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/ or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours.	Rule 335-3-16-.05(c) 40 CFR §64.3
3. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.	Rule 335-3-16-.05(c) 40 CFR §64.3
<u>Recordkeeping and Reporting Requirements</u>	
1. Any plans to change the type of burner fuel must be approved of by the Department.	Rule 335-3-16-.05
2. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)
3. The facility shall maintain a record of the amount of natural gas consumed each month and a rolling total of each consecutive 12-month period.	Rule 335-3-14-.04 [Anti-PSD]
4. The facility shall maintain a record of the pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.	Rule 335-3-16-.05(c) 40 CFR §64.4
5. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.	Rule 335-3-16-.05(c) 40 CFR §64.4

Summary Page for Calcination Process

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
EP-13	Kettle A Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	10%	40 CFR 60 Subpart UUU
EP-11	Kettle A Burner	PM*	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
EP-19	Mini-Kettle A Burner	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
	Mini-Kettle Surge Bin	Opacity	7%	40 CFR 60 Subpart OOO
EP-14	Kettle B Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	10%	40 CFR 60 Subpart UUU
EP-12	Kettle B Burner	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
EP-41	MBR Kettle B Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
EP-40	MBR Kettle B Burner	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)

	MBR Kettle Surge Bin	Opacity	7%	40 CFR 60 Subpart OOO
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***Combined process limit for all sources controlled by each baghouse.**

Provisos for Calcination Process

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This process is 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. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions - Visible Emissions</i> ” as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ” as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. The Mini-kettle A Surge Bin and MBR Kettle B Feed Bin are subject to the applicable requirements of 40 CFR 60 Subpart OOO, “ <i>Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
5. The Mini-kettle A Surge Bin and MBR Kettle B Feed Bin are subject to the applicable requirements of 40 CFR 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)
6. The calcining kettles, mini-kettle, and MRB kettle are subject to the applicable requirements of 40 CFR 60 Subpart UUU, “ <i>Standards for Calciners and Dryers in Mineral Industries</i> ”.	Rule 335-3-10-.02(73) 40 CFR §60.730(c)
7. This process 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. “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 [Anti-PSD]
8. The Kettle A/B Burners, Mini-kettle Burner, and MBR Kettle Burner are subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The owner or operator must meet an opacity limit of seven percent (7%) for the Mini-kettle A Surge Bin and MBR Kettle B Feed Bin.	40 CFR §60.672(a)
2. The owner or operator must meet a fugitive emissions limit of ten percent (10%) opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671).	40 CFR §60.672(b)
3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must	40 CFR §60.672(e)

Federally Enforceable Provisos	Regulations
<p>comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:</p> <p>(a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and</p> <p>(b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.</p> <p>4. No emissions shall be discharged into the atmosphere from an affected baghouse that exhibits greater than ten percent (10%) opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.</p> <p>5. Particulate matter emissions from each baghouse associated with Lines A & B shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).</p> <p>6. This facility is limited to the use of Natural Gas as the only fuel source to fire any burner.</p> <p>7. The total amount of natural gas consumed at this facility shall not exceed 3.5×10^9 cubic feet in any consecutive 12-month period.</p> <p>8. This process shall meet the following opacity standards:</p> <p>(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.</p> <p>(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.</p>	<p>40 CFR §60.732(b)</p> <p>Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>Rule 335-3-4-.01(1)(a)</p> <p>Rule 335-3-4-.01(1)(b)</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>1. Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in appendix A. Alternatively, those methods specified in §60.675 and/or §60.736 may be referenced.</p>	<p>40 CFR §60.675 40 CFR §60.736</p>
<p>2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.</p>	<p>Rule 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
3. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity.	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 for the Kettle A/B Burners, Mini-kettle Burner, and MBR Kettle Burner.	40 CFR Part 64
2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours.	Rule 335-3-16-.05(c) 40 CFR §64.3
3. Each source permitted under this process shall be observed on a weekly basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.	Rule 335-3-16-.05(c) 40 CFR §64.3
<u>Recordkeeping and Reporting Requirements</u>	
1. Any plans to change the type of burner fuel must be approved of by the Department.	Rule 335-3-16-.05
2. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)
3. The facility shall maintain a record of the amount of natural gas consumed each month and a rolling total of each consecutive 12-month period.	Rule 335-3-14-.04 [Anti-PSD]
4. The facility shall maintain a record of the pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.	Rule 335-3-16-.05(c) 40 CFR §64.4
5. The facility shall maintain a record of all inspections, including visible emission checks, Method 9 observation, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.	Rule 335-3-16-.05(c) 40 CFR §64.4

Summary Page for Stucco Hot Pits (Lines A & B)

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
EP-15	Hot Pit A w/ Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-16	Hot Pit B w/ Baghouse	PM ₁₀ *	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16f}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Stucco Hot Pits (Lines A & B)

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> ”, as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(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 are subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. Particulate matter emissions from each baghouse associated with Lines A & B shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
2. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
<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

Federally Enforceable Provisos**Regulations**

2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.

Rule 335-3-1-.05

Emission Monitoring

1. Emission monitoring requirements under 40 CFR Part 64, “*Compliance Assurance Monitoring*” can be found in Appendix A.
2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours.
3. Each source permitted under this process shall be observed on a weekly basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.

40 CFR Part 64

Rule 335-3-16-.05(c)
40 CFR §64.3Rule 335-3-16-.05(c)
40 CFR §64.3**Recordkeeping and Reporting Requirements**

1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.
2. The facility shall maintain a record of the pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.
3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.

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

Rule 335-3-16-.05(c)
40 CFR §64.4Rule 335-3-16-.05(c)
40 CFR §64.4

Summary Page for Miscellaneous Units (Lines A & B)

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
EP-17	Dryer Mill Screen A; Dribble Bin; Bucket Elevators 1, 3, and 5; and LP Bin A controlled by Dust Collector A	PM ₁₀ *	Lesser of: 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-18	Dryer Mill Screen B; Dribble Bin; Bucket Elevators 2 and 4; and LP Bin B controlled by Dust Collector B	PM ₁₀ *	Lesser of: 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Miscellaneous Units (Lines A & B)

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> ”, as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. These sources have an enforceable limit 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. Screens A & B, LP Bins A & B, and Bucket Elevators No.1 through No. 5 are subject to the applicable requirements of 40 CFR 60 Subpart OOO, “ <i>New Source Performance Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
6. Screens A & B, LP Bins A & B, and Bucket Elevators No.1 through No. 5 are subject to the applicable requirements of 40 CFR 63 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)
7. These sources are subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The owner or operator must meet an opacity limit of seven percent (7%) for Misc. Dust Collector A or B.	40 CFR §60.672(a)
2. The owner or operator must meet a fugitive emissions limit of ten percent (10%) opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671).	40 CFR §60.672(b)

Federally Enforceable Provisos

Regulations

3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:

40 CFR §60.672(e)

(a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and

(b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.

4. The particulate emission rate from each baghouse associated with Lines A & B shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).

Rule 335-3-14-.04
[Anti-PSD]

Rule 335-3-4-.04(1)

5. These sources shall meet the following opacity standards:

(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.

Rule 335-3-4-.01(1)(a)

(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.

Rule 335-3-4-.01(1)(b)

Compliance and Performance Test Methods and Procedures

1. Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in appendix A. Alternatively, those methods specified in §60.675 may be referenced.

40 CFR §60.675

2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.

Rule 335-3-1-.05

3. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity.

Rule 335-3-1-.05

Emission Monitoring

1. Emission monitoring requirements under 40 CFR Part 64, “Compliance Assurance Monitoring” can be found in Appendix A.

40 CFR Part 64

Federally Enforceable Provisos

Regulations

2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours.

Rule 335-3-16-.05(c)
40 CFR §64.3

3. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.

Rule 335-3-16-.05(c)
40 CFR §64.3

Recordkeeping and Reporting Requirements

1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.

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

2. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.

Rule 335-3-16-.05(c)
40 CFR §64.4

3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.

Rule 335-3-16-.05(c)
40 CFR §64.4

Summary Page for Stucco Storage Bins

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
EP-21	Stucco Storage Bin #1 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-22	Stucco Storage Bin #2 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Stucco Storage Bins

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> ”, as described in General Proviso No. 29.	Rule 335-3-4-.01(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 for Process Industries - General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. These sources have enforceable limits in place in order to prevent them from being subject to the applicable 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 are subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. Particulate matter emissions from each baghouse associated with the Storage Bins shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
2. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)

Federally Enforceable Provisos**Regulations****Compliance and Performance Test Methods and Procedures**

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| 1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions. | Rule 335-3-1-.05 |
| 2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity. | Rule 335-3-1-.05 |

Emission Monitoring

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| 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. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours. | Rule 335-3-16-.05(c)
40 CFR §64.3 |
| 3. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased. | Rule 335-3-16-.05(c)
40 CFR §64.3 |

Recordkeeping and Reporting Requirements

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| 1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years. | Rule 335-3-16-.05(c) |
| 2. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. | Rule 335-3-16-.05(c)
40 CFR §64.4 |
| 3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. | Rule 335-3-16-.05(c)
40 CFR §64.4 |

Summary Page for Additives Mixing Process

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
EP-20	Additive #3 Feed Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-23	HRA Landplaster Feed Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-24	HRA Ball mill #1 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-25	Additive #1 Storage Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-26	Additive #2 Storage Bin #1 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-27	Additive #1 Refill Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

EP-28	Additive #2 Vacuum Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-29	Stucco & Dry Additives Feed Bin w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-42	HRA Landplaster Bin #1 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-43	HRA Ball mill #2 w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-44	Stucco Screw w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Additives Mixing Process

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This process is 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. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions - Visible Emissions</i> ”, as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. Land Plaster Feed Bins No. 1 and No. 2, HRA Ball Mill No. 1 and No. 2, and HRA Refill Bin are subject to the applicable requirements of 40 CFR 60 Subpart OOO, “ <i>New Source Performance Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
5. Land Plaster Feed Bins No. 1 and No. 2, HRA Ball Mill No. 1 and No. 2, and HRA Refill 4 are subject to the applicable requirements of 40 CFR 63 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)
6. This process has 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]
7. Stucco & Dry Additives Feed Bin is subject to 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The owner or operator must meet an opacity limit of seven percent (7%) for dry control devices controlling Land Plaster Feed Bins No. 1 and No. 2, HRA Ball Mill No. 1 and No. 2, and HRA Refill.	40 CFR §60.672(a)
2. The owner or operator must meet fugitive emissions limit of ten percent (10%) opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671).	40 CFR §60.672(b)

Federally Enforceable Provisos**Regulations**

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| <p>3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:</p> <p>(a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and</p> <p>(b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.</p> | 40 CFR §60.672(e) |
| <p>4. Particulate matter emissions from each baghouse associated with those units comprising the Additives Mixing Process shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).</p> | Rule 335-3-14-.04 [Anti-PSD]
Rule 335-3-4-.04(1) |
| <p>5. This process shall meet the following opacity standards:</p> <p>(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.</p> <p>(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.</p> | Rule 335-3-4-.01(1)(a)
Rule 335-3-4-.01(1)(b) |

Compliance and Performance Test Methods and Procedures

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| <p>1. Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in appendix A. Alternatively those methods specified in §60.675 may be referenced.</p> | 40 CFR §60.675 |
| <p>2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of the opacity of emissions from affected sources.</p> | Rule 335-3-1-.05 |
| <p>3. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity.</p> | Rule 335-3-1-.05 |

Emission Monitoring

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| <p>1. Emission monitoring requirements under 40 CFR Part 64, “Compliance Assurance Monitoring” can be found in Appendix A.</p> | 40 CFR Part 64 |
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Federally Enforceable Provisos**Regulations**

2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be check on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacture's recommended range are to be initiated within two hours.

Rule 335-3-16-.05(c)
40 CFR §64.3

3. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.

Rule 335-3-16-.05(c)
40 CFR §64.3

Recordkeeping and Reporting Requirements

1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.

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

2. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions take, performed to satisfy the requirements of periodic monitoring.

Rule 335-3-16-.05(c)
40 CFR §64.4

3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.

Rule 335-3-16-.05(c)
40 CFR §64.4

Summary Page for Gypsum Drying Kiln

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
EP-35	Drying Kiln during Siloxane usage	PM ₁₀	Lesser of: 31.55 lb/hr or 0.0144 lb per lb of Siloxane	Rule 335-3-14-.04 (Anti-PSD)
	Drying Kiln	PM ₁₀	6.65 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
		Opacity	20%	Rule 335-3-4-.01(1)

Provisos for Gypsum Drying Kiln

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is 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. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions – Visible Emissions</i> ” as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. This unit has enforceable limits in place in order to prevent them from being subject to the applicable 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]
<u>Emission Standards</u>	
1. This facility is limited to the use of Natural Gas as the only fuel to fire the burner. Any plans to change the type of burner fuel must receive prior approval from this office.	Rule 335-3-14-.04 [Anti-PSD]
2. The total amount of natural gas consumed at this facility shall not exceed 3.5×10^9 cubic feet in any consecutive 12-month period.	Rule 335-3-14-.04 [Anti-PSD]
3. While producing normal wallboard, emissions of particulate matter from the kiln shall not exceed 6.65 lb/hr.	Rule 335-3-14-.04 [Anti-PSD]
4. While producing wallboard using Siloxane, emissions of particulate matter from the kiln shall not exceed the lesser of 31.55 lb/hr or 0.0144 lb per lb of Siloxane used.	Rule 335-3-14-.04 [Anti-PSD]
5. The usage of Siloxane shall not exceed 2,000,000 pounds in any consecutive 12-month period.	Rule 335-3-14-.04 [Anti-PSD]
6. The usage of coated glass mat shall not exceed 2,850,000 pound in any consecutive 12-month period.	Rule 335-3-16-.05(a)
7. The usage of uncoated glass mat shall not exceed 750,000 pounds in any consecutive 12-month period.	Rule 335-3-16-.05(a)
8. The amount of chain lubrication oil used in the kiln shall not exceed 5,280 gallons in any 12-month consecutive period.	Rule 335-3-14-.04 [Anti-PSD]

Federally Enforceable Provisos	Regulations
<p>9. This unit shall meet the following opacity standards:</p> <p>(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.</p> <p>(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.</p>	<p>Rule 335-3-4-.01(1)(a)</p> <p>Rule 335-3-4-.01(1)(b)</p>
<u>Compliance and Performance Test Methods and Procedures</u>	
<p>1. Compliance with particulate matter emissions limits shall be determined using the permitted limit of 0.0144 lbs PM/lb Siloxane, a natural gas combustion emission factor of 0.0076 PM/MMBtu, and a process emissions factor of 0.024 lbs/MMBtu.</p>	<p>Rule 335-3-14-.04 [Anti-PSD]</p>
<p>2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.</p>	<p>Rule 335-3-1-.05</p>
<p>3. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.</p>	<p>Rule 335-3-1-.05</p>
<u>Emission Monitoring</u>	
<p>1. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.</p>	<p>Rule 335-3-16-.05(c)</p>
<u>Recordkeeping and Reporting Requirements</u>	
<p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. The facility shall maintain a record of the amount of natural gas consumed each month and a rolling total of each consecutive 12-month period.</p>	<p>Rule 335-3-14-.04 [Anti-PSD]</p>
<p>3. The facility shall maintain a record of the amount of chain oil used each month on the kiln and a rolling total of each consecutive 12-month period.</p>	<p>Rule 335-3-14-.04 [Anti-PSD]</p>
<p>4. When siloxane is used, a record of the hours of operation shall be kept on site.</p>	<p>Rule 335-3-14-.04 [Anti-PSD]</p>

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| 5. The facility shall maintain records showing a monthly and consecutive 12 month rolling total of Siloxane used. | Rule 335-3-14-.04
[Anti-PSD] |
| 6. The facility shall maintain monthly and consecutive 12-month rolling totals of coated glass mat and uncoated glass mat used. | Rule 335-3-16-.05(c) |
| 6. The facility shall maintain records of each visual emission observation. This shall include any Method 9 conducted and/or a description of the correction actions taken to remedy the problem. | Rule 335-3-16-.05(c) |

Summary Page for Gypsum Board Cutting Process & Waste Reclamation System

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
EP-36	End Saw w/ Dust Collector	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-37	End Saw Vacuum Receiver w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-38	Waste Hopper w/ Dust Collector	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-47	Dunnage w/ Dust Collector	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
F-ST	Stamler (waste shredder)	N/A	N/A	N/A
F-WRC	Waste Reclaim Conveyor	N/A	N/A	N/A
F-MFBC	Mill Feed Belt Conveyor	N/A	N/A	N/A
F-KDB	Kettle Distribution Belt	N/A	N/A	N/A

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Gypsum Board Cutting Process & Waste Reclamation System

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> ", as describe in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), " <i>Control of Particulate Emissions for Process Industries – General</i> ", as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. The Waste Hopper, Stampler, Waste Reclaim Conveyor, Mill Feed Belt Conveyor, and Kettle Distribution Belt are subject to the applicable requirements of 40 CFR 60 Subpart OOO, " <i>New Source Performance Standards of Performance for Nonmetallic Mineral Processing Plants</i> ".	Rule 335-3-10-.02(67) 40 CFR §60.670(a)
5. The Waste Hopper, Stampler, Waste Reclaim Conveyor, Mill Feed Belt Conveyor, and Kettle Distribution Belt are subject to the applicable requirements of 40 CFR 63 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)
6. 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]
7. The End Saw, End Saw Vacuum Receiver, and Dunnage are subject to 40 CFR Part 64, " <i>Compliance Assurance Monitoring</i> ", as described in General Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The owner or operator must meet an opacity limit of seven percent (7%) for any dry control device controlling the Waste Reclamation System.	40 CFR §60.672(a)
2. The owner or operator must meet a fugitive emissions limit of ten percent (10%) opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading	40 CFR §60.672(b)

Federally Enforceable Provisos**Regulations**

stations or from any other affected facility (as defined in §60.670 and §60.671).	
3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits: (a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and (b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.	40 CFR §60.672(e)
4. Particulate matter emissions from any baghouse associated with these sources shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
5. These sources shall meet the following opacity standards: (a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average. (b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a) Rule 335-3-4-.01(1)(b)

Compliance and Performance Test Methods and Procedures

1. Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in appendix A. Alternatively those methods specified in §60.675 may be referenced.	40 CFR §60.675
2. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.	Rule 335-3-1-.05
3. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity.	Rule 335-3-1-.05

Federally Enforceable Provisos**Regulations****Emission Monitoring**

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| 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. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours. | Rule 335-3-16-.05(c)
40 CFR §64.3 |
| 3. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased. | Rule 335-3-16-.05(c)
40 CFR §64.3 |

Recordkeeping and Reporting Requirements

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| 1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years. | Rule 335-3-16-.05(c) |
| 2. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained for a period of five years from the date of generation. | Rule 335-3-16-.05(c)
40 CFR §64.4 |
| 3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained for a period of five years from the date of generation. | Rule 335-3-16-.05(c)
40 CFR §64.4 |

Summary Page for Joint Treatment Process

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
EP-130	Bulk Calcium Silo w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-131	Bulk Perlite Silo w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-132	Dry Mixer w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)
EP-133	Bag Dump Area w/ Baghouse	PM ₁₀ *	Lesser of: 0.015 gr/ dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Joint Treatment Process

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This process is 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. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions – Visible Emissions</i> ” as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. This process is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
4. This process has enforceable limits in place in order to prevent it from being subject to the applicable 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]
<u>Emission Standards</u>	
1. Particulate matter emissions from each baghouse associated with sources comprising the Joint Treatment Process shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
2. This process shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
<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
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05

Federally Enforceable Provisos**Regulations****Emission Monitoring**

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| <p>1. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.</p> | Rule 335-3-16-.05(c) |
| <p>2. Each source permitted under this process shall be observed on a daily basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.</p> | Rule 335-3-16-.05(c) |

Recordkeeping and Reporting Requirements

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| <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p> | Rule 335-3-16-.05(c) |
| <p>2. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.</p> | Rule 335-3-16-.05(c) |
| <p>3. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, problems noted, and corrective actions take, performed to satisfy the requirements of periodic monitoring.</p> | Rule 335-3-16-.05(c) |

Summary Page for Paper/Glass Mat Pulling System Process

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
EP-50	Paper/Glass Mat Pulling System w/ Baghouse	PM	Lesser of 0.015 gr/dscf or E=17.31P ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%	Rule 335-3-4-.01(1)

***Combined process limit for all sources controlled by each baghouse.**

Provisos for Paper/Glass Mat Pulling Process

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
5. These units 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
6. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “ <i>Control of Particulate Emissions – Visible Emissions</i> ”, as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
7. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “ <i>Control of Particulate Emissions for Process Industries – General</i> ”, as described in General Proviso No. 31.	Rule 335-3-4-.04(1)
8. These units have an enforceable limit in place in order to prevent them from being subject to the applicable 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]
<u>Emission Standards</u>	
1. Particulate matter emissions from the baghouse associated with these units shall not exceed the lesser of 0.015 grains per dry standard cubic foot of exhaust air or that which is calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
2. These units shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60 minute period, no unit shall discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall any unit discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of the opacity.	Rule 335-3-1-.05

Federally Enforceable Provisos

Regulations

Emission Monitoring

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| <p>1. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer’s recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer’s recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer’s recommended range are to be initiated within two hours.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. At least once per week, a person familiar with Method 9 in 40 CFR Part 60 shall observe the stack associated with these units for any visible emissions. If visible emissions are detected at any time, corrective action shall be taken.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The Permittee shall perform a monthly inspection of the baghouse to verify proper operation, to include the following activities:</p> <ul style="list-style-type: none">(a) Once per month, check hopper, fan, and cleaning cycle for proper operation.(b) Once per month, perform a visual check of all hoods and ductwork.(c) Record any repairs of observed problems. | <p>Rule 335-3-16-.05(c)</p> |

Recordkeeping and Reporting Requirements

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|--|-----------------------------|
| <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. The facility shall maintain a record of all inspections, including visible emission checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The facility shall maintain a record of all inspections, including pressure differential readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring.</p> | <p>Rule 335-3-16-.05(c)</p> |

APPENDIX A

40 CFR 64

Compliance Assurance Monitoring (CAM) Requirements

CAM Plan for Facility Wide Requirements except for units subject to NSPS Operating Requirements

	Parameter No.1	Parameter No. 2	Parameter No. 3	Parameter No. 4	Parameter No. 5	Parameter No. 6	Parameter No. 7
Indicator	Pressure Drop	Opacity	Fugitive Dust	Visible Fugitive Dust	Malodors	Natural Gas Usage	Natural Gas Limitation
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9	1. Visual Determination	1. Visual Determination	1. Recordkeeping	1. Recordkeeping	1. Recordkeeping
Indicator Range	1. While the unit is operating, an excursion is defined as a pressure differential below – inches of H ₂ O or greater than – inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.	1. Reasonable precautions will be taken to prevent air born particulate matter.	1. Reasonable precautions will be taken to prevent visible fugitive dust from crossing property.	1. If odorous emissions are observed arising from the plant operations and verified by Air Division Inspectors, measures to abate the odorous emissions shall be taken upon a determination by ADEM that these measures are technically and economically feasible.	1. Facility is limited to using natural gas to fire burners of fuel burning sources.	1. The facility natural gas usage shall be monitored and the total amount of natural gas consumed shall not exceed 3.5x10 ⁹ ft ³ in any consecutive 12-month period.

<u>Performance Criteria</u>							
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).	1. N/A	1. N/A	1. N/A	1. N/A	1. N/A
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.	1. N/A	1. N/A	1. N/A	1. N/A	1. N/A
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.	1. Fugitive dust observations shall be made periodically while the facility is in operation.	1. Visible fugitive dust observations shall be made periodically to ensure dust emissions are not discharged beyond the property line.	1. Reasonable precautions shall be taken to prevent maladors.	1. N/A	1. Monthly and a rolling 12-month total shall be monitored to ensure the facility does not exceed the facility gas usage limit.
D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.	1. N/A	1. N/A	1. N/A	1. N/A	1. The natural gas consumed, and a rolling total of each 12-month period will be recorded.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.	1. N/A	1. N/A	1. N/A	1. N/A	1. Monthly and rolling total fuel usage shall be kept.

CAM Plan for EP-3 Dryer Mill A, Feed Bin A w/BH, Hammer Mill A, Dryer A w/BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

<p>D. Data Collection Procedures</p>	<p>1. The pressure differential will be recorded with date and time.</p>	<p>1. The VE observation will be recorded with the time, date, and name of the observer.</p>
<p>E. Averaging Period</p>	<p>1. Pressure differential readings are instantaneous.</p>	<p>1. VE observations are instantaneous.</p>

CAM Plan for EP-4 Dryer Mill B, Feed Bin B w/BH, Hammer Mill B, Dryer B w/BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-11 and EP-13 Kettle A, Mini-Kettle A, Surge Bin and Mini-Kettle A w/BH

	Parameter No.1	Parameter No. 3
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-12, EP-40, EP-14 and EP-41 Kettle B, MBR Kettle B w/BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.2 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-15 Hot Pit A w/ BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20%, as determined by a minute period in any 60 minute period of not more than 40 % opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-16 Hot Pit B w/ BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20%, as determined by a minute period in any 60 minute period of not more than 40 % opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

**CAM Plan for EP-17 Miscellaneous A Dust Collector for Screen A, LP Bin A,
Bucket Elevators No. 1 and No. 3**

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-18 Miscellaneous B Dust Collector for Screen B, MBR Kettle Feed Bin, LP Bin B, HRA Landplaster, Waste Rotary Screen, and Bucket Elevators No. 2 and No. 4

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-21 and EP-22 Stucco Storage Bins 1 and 2 w/ BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20%, as determined by a minute period in any 60 minute period of not more than 40 % opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-24, EP-29, EP-23, EP-42, and EP-43 Additives Mixing Unit

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for all transfer points and greater than 7% for all stacks. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-25, EP-26, EP-27, EP-28, EP-44 and EP-20 Additives Mixing Units

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20%, as determined by a minute period in any 60 minute period of not more than 40 % opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-50 Paper/Glass Mat Pull System w/ BH

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20%, as determined by a 6 minute period in any 60 minute period of not more than 40% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

<p>D. Data Collection Procedures</p>	<p>1. The pressure differential will be recorded with date and time.</p>	<p>1. The VE observation will be recorded with the time, date, and name of the observer.</p>
<p>E. Averaging Period</p>	<p>1. Pressure differential readings are instantaneous.</p>	<p>1. VE observations are instantaneous.</p>

**CAM Plan for EP-36, EP-47, EP-37, and EP-38 Gypsum Board End Saw
Operation w/ BH**

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20% opacity, as determined by a 6 minute period in any 60 minute period of not more than 40% opacity for EP-36, EP 37 and EP-47. For EP-38, an excursion is defined as the presence of visible emissions greater than 7% for stacks and 10% for transfer points. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point.

B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.
D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for F-ST, F-WRC, F-MFCB, and F-KDB Waste Reclamation System

	Parameter No. 1
<u>Indicator</u>	Opacity
A. Measurement Approach	1. Visual Observation
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% for the Waste Reclamation Conveyor and Mill Feed Conveyor and 15% for the Stamler. Excursions trigger an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>	
A. Data Representativeness	1. Measurement is being made at the emission point.
B. QA/QC Practices and Criteria	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Visible emissions observations shall be monitored and recorded when requested by ADEM.
D. Data Collection Procedures	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. VE observations are instantaneous.

CAM Plan for EP-130, EP-131, EP-132, and EP-133 Joint Treatment Process

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	Pressure Drop	Opacity
A. Measurement Approach	1. Differential Pressure Gauge	1. EPA Reference Method 9
<u>Indicator Range</u>	1. While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H ₂ O or greater than 8 inches of H ₂ O. Excursions trigger an inspection, corrective action and a reporting requirement.	1. While the unit is operating, an excursion is defined as the presence of visible emissions greater than 20% opacity, as determined by a 6 minute period in and 60 minute period of not more than 40% opacity. Excursion triggers an inspection, corrective action, and a reporting requirement.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The pressure gauge measures the pressure differential between the inlet and out of the baghouse.	1. Measurement is being made at the emission point (baghouse exhaust).
B. QA/QC Practices and Criteria	1. The pressure gauge will have a performance check if abnormal pressure is noted.	1. The observer will be familiar with Reference Method 9.
C. Monitoring Frequency	1. Pressure drop readings shall be monitored and recorded weekly while each unit is in operation.	1. Visible emissions observations shall be monitored and recorded daily while each unit is in operation.

D. Data Collection Procedures	1. The pressure differential will be recorded with date and time.	1. The VE observation will be recorded with the time, date, and name of the observer.
E. Averaging Period	1. Pressure differential readings are instantaneous.	1. VE observations are instantaneous.

CAM Plan for EP-35 Gypsum Board Drying Kiln

	Parameter No.1	Parameter No. 2
<u>Indicator</u>	PM Concentration	Siloxane Usage
A. Measurement Approach	1. Stack Testing	1. Recordkeeping
<u>Indicator Range</u>	1. While the unit is operating, the facility will perform stack testing, including Method 202 in 40 CFR Part 51, Appendix M as requested by ADEM to ensure the facility does not exceed 6.65 lb/hr of PM emissions while producing normal wallboard or 31.55 lb/hr while producing wallboard using siloxane.	1. The total amount of siloxane used at the facility shall not exceed 2,000,000 lbs in any consecutive 12-month period. The amount of chain lubrication oil used in the kiln shall not exceed 5,280 gallons in any 12-month consecutive period.
<u>Performance Criteria</u>		
A. Data Representativeness	1. The stack testing uses Method 202 in 40 CFR 51, Appendix M to ensure representative particulate matter emission rates.	1. The facility shall record hours of production of siloxane based products and a rolling total of hours of production for a 12-month period.
B. QA/QC Practices and Criteria	1. The stack testing shall be performed with someone familiar with Method 202.	1. N/A
C. Monitoring Frequency	1. Stack testing shall be performed as requested by ADEM.	1. The facility shall maintain a monthly record of siloxane and chain lubrication oil usage.

<p>D. Data Collection Procedures</p>	<p>1. The facility shall maintain records of testing results for a period of five years.</p>	<p>1. The facility shall maintain records for a period of five years.</p>
<p>E. Averaging Period</p>	<p>1. Stack testing results are over a period of time necessary to get a representative sample.</p>	<p>1. Monthly records of siloxane and chain lubrication oil usage and monthly and total of hours of production over a 12-month period.</p>

CAM Plan for F-BU, F-FH, F-SSFBC, and F-RMSS Raw Material Storage and Handling

	Parameter No. 1
<u>Indicator</u>	Opacity
A. Measurement Approach	1. Visual Determination
<u>Indicator Range</u>	1. Fugitive emissions from the Barge unloading operation, Feed Hopper, Storage Shed, Belt Feed Conveyor and Raw Material Storage Shed shall not be discharged past the property line. Precautions shall be taken to minimize emissions.
<u>Performance Criteria</u>	
A. Data Representativeness	1. N/A
B. QA/QC Practices and Criteria	1. N/A
C. Monitoring Frequency	1. The facility shall perform visual observations when requested by ADEM.
D. Data Collection Procedures	1. Records of observation shall be maintained for a period of five years.
E. Averaging Period	1. Visual observations are instantaneous.