

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: MINERAL MANUFACTURING CORPORATION
FACILITY NAME: MINERAL MANUFACTURING CORPORATION
FACILITY/PERMIT NO.: 601-0013
LOCATION: EUFAULA, BARBOUR COUNTY, ALABAMA

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

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

Issuance Date:

Effective Date:

Expiration Date:

TABLE OF CONTENTS

GENERAL PERMIT PROVISOS.....	4
UNIT 001 - 20 TPH KILN/COOLER, CRUSHING, AND CONVEYING	
OPERATING PERMIT SUMMARY.....	22
PROVISOS.....	24
1. <i>Applicability.....</i>	24
2. <i>Emission Standards.....</i>	24
3. <i>Compliance and Performance Test Methods and Procedures.....</i>	24
4. <i>Emission Monitoring.....</i>	24
5. <i>Recordkeeping and Reporting Requirements.....</i>	26
COMPLIANCE ASSURANCE MONITORING APPENDIX.....	28
UNIT 002 - 200 TPH CONVEYING, CRUSHING, AND EXTRUDING	
OPERATING PERMIT SUMMARY	30
PROVISOS.....	33
1. <i>Applicability.....</i>	33
2. <i>Emission Standards.....</i>	33
3. <i>Compliance and Performance Test Methods and Procedures.....</i>	33
4. <i>Emission Monitoring.....</i>	33
5. <i>Recordkeeping and Reporting Requirements.....</i>	34
COMPLIANCE ASSURANCE MONITORING APPENDIX.....	36

UNIT 003 - 25 TPH CONVEYING, CRUSHING, SCREENING, AND SACKING

OPERATING PERMIT SUMMARY	38
PROVISOS.....	40
1. <i>Applicability.....</i>	40
2. <i>Emission Standards.....</i>	40
3. <i>Compliance and Performance Test Methods and Procedures.....</i>	40
4. <i>Emission Monitoring.....</i>	40
5. <i>Recordkeeping and Reporting Requirements.....</i>	42
COMPLIANCE ASSURANCE MONITORING APPENDIX.....	44

UNIT 004 – 676 Hp Caterpillar diesel-fired Emergency Generator

OPERATING PERMIT SUMMARY	46
PROVISOS.....	47
1. <i>Applicability.....</i>	47
2. <i>Emission Standards.....</i>	47
3. <i>Compliance and Performance Test Methods and Procedures.....</i>	47
4. <i>Emission Monitoring.....</i>	48
5. <i>Recordkeeping and Reporting Requirements.....</i>	48

General Permit Provisos

Federally Enforceable Provisos	Regulations
1. <u>Transfer</u> 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.	ADEM Admin. Code r. 335-3-16-.02(6)
2. <u>Renewals</u> 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. 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.	ADEM Admin. Code r. 335-3-16-.12(2)
3. <u>Severability Clause</u> 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.	ADEM Admin. Code r. 335-3-16-.05(e)
4. <u>Compliance</u> (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. (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.	ADEM Admin. Code r. 335-3-16-.05(f) ADEM Admin. Code r. 335-3-16-.05(g)

Federally Enforceable Provisos	Regulations
5. <u>Termination for Cause</u> 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.	ADEM Admin. Code r. 335-3-16-.05(h)
6. <u>Property Rights</u> The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin. Code r. 335-3-16-.05(i)
7. <u>Submission of Information</u> 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.	ADEM Admin. Code r. 335-3-16-.05(j)
8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u> 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.	ADEM Admin. Code r. 335-3-16-.05(k)
9. <u>Certification of Truth, Accuracy and Completeness</u> Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin. Code r. 335-3-16-.07(a)
10. <u>Inspection and Entry</u> 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:	ADEM Admin. Code r. 335-3-16-.07(b)

Federally Enforceable Provisos	Regulations
(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.	
11. <u>Compliance Provisions</u>	
(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.	ADEM Admin. Code r. 335-3-16-.07(c)
12. <u>Compliance Certification</u>	
A compliance certification shall be submitted annually within 60 days of the anniversary date of this permit, or within an alternative timeline approved by the Director.	ADEM Admin. Code r. 335-3-16-.07(e)
(a) The compliance certification shall include the following: (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements);	

Federally Enforceable Provisos**Regulations**

- (4) Whether the method(s) or other means used to assure compliance provided continuous or intermittent data;
- (5) Such other facts as the Department may require to determine the compliance status of the source;
- (b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463

and to:

EPA Region 4 via email at
EPA_R4_CAA_Reports@epa.gov or through the EPA's
Compliance and Emissions Data Reporting Interface
(CEDRI)

13. Reopening for Cause

Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:

- (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.
- (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.
- (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

ADEM Admin. Code r.
335-3-16-.13(5)

Federally Enforceable Provisos	Regulations
(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14. <u>Additional Rules and Regulations</u>	
This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), <u>Code of Alabama 1975</u> , as amended
15. <u>Equipment Maintenance or Breakdown</u>	
(a) In case of shutdown of air pollution control equipment for scheduled maintenance, the intent to shut down shall be reported to the Department at least 24 hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following: (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 possible or impractical to shut down the source operation during the maintenance period.	ADEM Admin. Code r. 335-3-1-.07(1), (2)

Federally Enforceable Provisos	Regulations
(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 of the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.	
16. <u>Operation of Capture and Control Devices</u>	
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.	§22-28-16(d), <u>Code of Alabama 1975</u>, as amended
17. <u>Obnoxious Odors</u>	
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.	ADEM Admin. Code r. 335-3-1-.08
18. <u>Fugitive Dust</u>	
(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	ADEM Admin. Code r. 335-3-4-.02
(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:	

Federally Enforceable Provisos	Regulations
(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;	
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.	
19. <u>Addition and Revisions</u>	
Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.	ADEM Admin. Code r. 335-3-16-.13 and 335-3-16-.14
20. <u>Recordkeeping Requirements</u>	
(a) Records of required monitoring information of the source shall include the following: (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.	ADEM Admin. Code r. 335-3-16-.05(c)(2).

Federally Enforceable Provisos**Regulations**

- (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.

21. Reporting Requirements

- (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).
- (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.

ADEM Admin. Code r.
335-3-16-.05(c)(3)

22. Emission Testing Requirements

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.

ADEM Admin. Code r.
335-3-1-.05(3) and
ADEM Admin. Code r.
335-3-1-.04(1)

The Air Division must be notified in writing at least 20 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.

To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

Federally Enforceable Provisos	Regulations
(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	ADEM Admin. Code r. 335-3-1-.04
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.	
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.	
23. <u>Payment of Emission Fees</u>	
(a) The permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-7-.04 according to the schedule in ADEM Admin. Code r. 335-1-7-.05.	ADEM Admin. Code r. 335-1-7-.04
(b) The permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05.	

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

Federally Enforceable Provisos	Regulations
(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.	
27. <u>Display of Permit</u>	
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 made readily available for inspection by any or all persons who may request to see it.	ADEM Admin. Code r. 335-3-14-.01(1)(d)
28. <u>Circumvention</u>	
No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes tany emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	ADEM Admin. Code r. 335-3-1-.10
29. <u>Visible Emissions</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	ADEM Admin. Code r. 335-3-4-.01(1)
30. <u>Fuel-Burning Equipment</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	ADEM Admin. Code r. 335-3-4-.03
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.	ADEM Admin. Code r. 335-3-5-.01

Federally Enforceable Provisos	Regulations
31. <u>Process Industries - General</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	ADEM Admin. Code r. 335-3-4-.04
32. <u>Averaging Time for Emission Limits</u>	
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.	ADEM Admin. Code r. 335-3-1-.05
33. <u>Compliance Assurance Monitoring (CAM)</u>	
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.	40 CFR 64
(a) Operation of Approved Monitoring	40 CFR §64.7
(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(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.	

Federally Enforceable Provisos	Regulations
(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.	
(4) <i>Response to excursions or exceedances.</i> (i) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown, or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation,	

Federally Enforceable Provisos**Regulations**

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.

- (ii) 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.

- (5) *Documentation of need for improved monitoring.* After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring change. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(b) Quality Improvement Plan (QIP) Requirements

- (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

40 CFR §64.8

Federally Enforceable Provisos**Regulations**

accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.

(2) Elements of a QIP:

- (i) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
- (ii) 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:
 - A. Improved preventative maintenance practices.
 - B. Process operation changes.
 - C. Appropriate improvements to control methods.
 - D. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).
 - E. Other steps appropriate to correct control performance.

(3) If 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.

(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that

Federally Enforceable Provisos**Regulations**

an owner or operator make reasonable changes to the QIP if the QIP is found to have:

- (i) Failed to address the cause of the control device performance problems; or
- (ii) 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.
- (iii) 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.

(c) Reporting and Recordkeeping Requirements

40 FR §64.9

(1) General reporting requirements

- (i) 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.
- (ii) A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3, and the following information, as applicable:
 - A. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - B. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime, incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

Federally Enforceable Provisos**Regulations**

C. 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 a 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.

(2) *General recordkeeping requirements*

- (i) 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).
- (ii) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

(d) Savings Provisions

40 CFR §64.10

Nothing in this part shall:

- (1) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting, or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including

Federally Enforceable Provisos**Regulations**

monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.

(2) Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirement 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.

(3) Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.

34. Permit Shield

A permit shield exists under this operating permit in accordance with ADEM Admin. Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in the application are not applicable to this source.

ADEM Admin. Code r.
335-3-16-.10

35. Emissions Inventory Report

In order to meet the statewide emissions inventory reporting requirements under 40 CFR Part 51, Appendix A, the permittee shall comply with the reporting requirements under ADEM Admin. Code r. 335-3-1-.15.

ADEM Admin. Code r.
335-3-1-.15

36. Open Burning

Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.

ADEM Admin. Code r.
335-3-3-.01

Operating Permit Summary No. 001

20 TPH Rotary Kiln/Cooler, Crushing and Conveying Circuit

Control Device: 4 Baghouses in unison

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to SIP regulations.

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
FUG	Raw Material Storage Buildings	PM	N/A	N/A
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Apron Feed Conveyor No. 1	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Eagle Double Roll Crusher	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Belt Conveyor No. 1	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Robinson Crusher	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-1	Apron Feed Conveyor No. 2	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Belt Conveyor No. 2	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP-1	Kiln/Cooler	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
		SO ₂	N/A	N/A
		NO _x	N/A	N/A
		VOC	N/A	N/A
		CO	N/A	N/A
EP-1	Belt Conveyor No. 3	PM	$E = 3.59P^{0.62}$ (P<30TPH) E = 23 lb/hr	ADEM. Admin. Code r. 335-3-4-.04(1)
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
FUG	Belt Conveyor No. 4	PM	N/A	N/A
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
FUG	Product Storage Building	PM	N/A	N/A
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01

20 TPH Rotary Kiln/Cooler, Crushing and Conveying Circuit

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of Rule 335-3-4-.04 for particulate matter.	Rule 335-3-4-.04
3. This source is subject to the applicable requirements of Rule 335-3-4-.01 for opacity.	Rule 335-3-4-.01
<u>Emission Standards</u>	
1. No person shall cause or permit the emission of particulate matter in any one hour from this unit in excess of the amount determined by use of the following equation: $E = 3.59 (P)^{0.62}$ Where E = Emissions in pounds per hour P = Process Weight per hour in tons per hour	Rule 335-3-4-.04
2. Opacity shall not exceed twenty percent (20%) as determined by a six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate visible emissions of opacity not greater than that designate as forty percent (40%).	Rule 335-3-4-.01
<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. Alternate methods may be utilized if approved in advance by the Department.	Rule 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A shall be used in the determination of opacity. Alternate methods may be utilized if approved in advance by the Department.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. A properly maintained and operated device shall be utilized to measure the pressure differential across the baghouse.	Rule 335-3-16-.05
2. The pressure differential across the baghouse shall measure within the range of 3 to 6 inches of water.	Rule 335-3-16-.05

Federally Enforceable Provisos**Regulations**

3. Mineral Manufacturing shall inspect the pressure differential measuring device associated with the pollution control equipment on a daily basis while it is operating. If problems are observed with the device, then corrective actions shall be initiated within 24 hours.

Rule 335-3-16-.05

4.

4. Mineral Manufacturing shall inspect each pollution control device daily for visible emissions while each unit is operating.

Rule 335-3-16-.05

If visible emissions are observed, then corrective actions shall be initiated within 24 hours.

5. Mineral Manufacturing shall perform an observation of visible emissions on a weekly basis. Each observation shall be accomplished for a minimum of six minutes. If the average Method 9 opacity during the six-minute period exceeds fifteen percent (15%), the facility shall conduct a second Method 9 six-minute opacity reading within thirty minutes of the initial observation. If the average opacity during both six-minute observations exceeds fifteen percent (15%), Mineral Manufacturing shall conduct an inspection of the applicable control device to determine the cause of the visible emissions.

Rule 335-3-16-.05

Mineral Manufacturing shall notify the Department in writing within twenty-four (24) hours if the visible emissions are at or above twenty percent (20%) opacity during a Method 9 six-minute observation. Both Method 9 six-minute observations shall be submitted if notification is required.

The notification shall include the following:

- (a) The duration of the occurrence
- (b) The results of the inspection of the control device
- (c) The corrective action taken and/or preventative measures adopted

Visible emission observations will be conducted in accordance with 40 CFR Part 60, Appendix A, Method 9.

6. Mineral Manufacturing shall perform an inspection of the baghouse to verify proper operation.

Rule 335-3-16-.05

The following activities shall be performed

- (a) Once per month, check the hopper, fan, and cleaning cycle for proper operation.
- (b) Once per month, perform an inspection of all hoods and ductwork.

Federally Enforceable Provisos	Regulations
(c) Once per month, inspect and document that the bags are performing effectively.	
(d) Record any repairs or observed problems.	
7. Mineral Manufacturing shall, at all times, have personnel (whether Mineral Manufacturing staff or contractor) readily available who are certified in performing EPA Reference Method 9 observations to determine if visible emission problems exist and to conduct the appropriate EPA Reference Method 9 observations when conditions are favorable.	Rule 335-3-16-.05
8. Mineral Manufacturing shall, at all times, maintain personnel (whether Mineral Manufacturing staff or contractor) on site who are knowledgeable in the maintenance of emissions control equipment (whether control devices or suppression systems).	Rule 335-3-16-.05
9. 40 CFR Part 64 Compliance Assurance PM monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of the inspection and of any repairs made to each pressure differential measuring device must be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.	Rule 335-3-16-.05
2. Records of the inspection and of any repairs made to each pollution control device and each piece of process equipment must be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.	Rule 335-3-16-.05
3. Records of EPA Reference Method 9 certification shall be maintained on site for each individual certified in conducting EPA Reference Method 9 observations and made available upon request.	Rule 335-3-16-.05
4. Records of any EPA Reference Method 9 tests conducted shall be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.	Rule 335-3-16-.05

Federally Enforceable Provisos**Regulations**

5. A semi-annual monitoring report shall be submitted to the Department according to the following schedule:

Reporting Period	Due Date
June 1, 2026 – November 30, 2026	January 30, 2027
December 1, 2026 – May 31, 2027	July 31, 2027
June 1, 2027 – November 30, 2027	January 30, 2028
December 1, 2027 – May 31, 2028	July 31, 2028
June 1, 2028 – November 30, 2028	January 30, 2029
December 1, 2028 – May 31, 2029	July 31, 2029
June 1, 2029 – November 30, 2029	January 30, 2030
December 1, 2029 – May 31, 2030	July 31, 2030
June 1, 2030 – November 30, 2030	January 30, 2031
December 1, 2030 – May 31, 2031	July 31, 2031

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

6. Each semi-annual report shall contain the following information:

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

- (a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emission, observed opacity, and any corrective actions initiated;
- (b) Copy of every visible emissions observation report generated during the reporting period;
- (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
- (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and
- (e) Signature of the responsible official as required by General Permit Proviso No. 9.

Mineral Manufacturing Corporation
601-0013
Compliance/Monitoring Plan

Compliance Assurance Monitoring (CAM) Plan

Emission Unit: Rotary Kiln/Cooler, Crushing, and Conveying Circuit (Operating Permit Summary No. 001)

Pollutant: Particulate Matter

Control Technology: Pulse type dust collection system (Fabric filter baghouse)

CAM Monitoring Approach		
	Indicator No. 1	Indicator No. 2
General Criteria: Describe the monitoring approach used to measure the indicators.	EPA Method 9 observations for Visible Emissions performed on a weekly basis.	Pressure drop across the baghouse measured daily on a differential pressure gauge.
Establish the appropriate indicator range of the procedures for establishing the indicator range which provides a reasonable assurance of compliance.	The indicator level is an opacity less than 15% (6-min. avg.)	The indicator range is pressure drop between 3- and 6-inches H ₂ O.
Performance Criteria: Provide the Specification for Obtaining Representative Data:	Observations are performed at baghouse exhaust by a certified observer.	Pressure drop across the baghouse is measured using pressure taps at the baghouse inlet and exhaust.
Provide Verification Procedures, including manufacturer's recommendations to confirm the operational status of the monitoring:	Continuous training and certification of the VE observer.	See below.
Provide Quality Assurance and Quality Control (QA/QC) Practices that are adequate to ensure the continuing validity of the data, considering manufacturer's recommendations:	Observer is certified every six months.	Pressure gauge is calibrated and documented according to manufacturer's specifications. Also, pressure taps are checked for plugging.
Provide the monitoring frequency:	Once per week when unit is operating.	Pressure drop is measured daily.
Provide the data collection procedures that will be used:	Method 9 observations recorded manually by a certified observer.	Pressure drop manually recorded once daily in log book.

Provide the data averaging period for the purpose of determining whether an excursion or exceedance has occurred:	Six-minutes	None
Rationale and Justification		
Indicators and Monitoring Approach:		
Visible emissions were selected as performance indicator because it is indicative of how well the baghouse is operating. The opacity standard for this unit is 20 percent. When the baghouse is operating properly, there should be minimal visible emissions from the exhaust. However, an increase in the opacity normally indicates a reduced efficiency of the baghouse, most likely due to torn or loose bags. A six-minute Method 9 observation is performed weekly.		
Pressure drop across the baghouse can also be a good indicator of the operation of the baghouse. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, or the bags are becoming blinded. A decrease in pressure drop can indicate there are significant holes, tears, or missing bags. However, the opacity is a more sensitive indicator of damaged or missing bags than pressure drop.		
Indicator Ranges:		
The indicator range for opacity is a six-minute average opacity of 15 percent. This range was selected based on the facility's permit requirements.		
The indicator range for baghouse pressure drop is a differential pressure between three and six inches of water. This range was selected based on historical data obtained during stack tests, which show the typical pressure drop of around four inches of water.		

Operating Permit Summary No. 002

200 TPH Conveying, Crushing and Extruding Circuit

Control Device: None

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to SIP Regulations and 40 CFR Part 60 Subpart OOO (All of the equipment except the pre-pug mill and pug extruder). This equipment is located in an enclosed building that is subject to emission limit of 7% opacity.

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP -2	FAB TEC Hopper/Feeder	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	J C Steele Crusher	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	Crusher Discharge Belt Conveyor	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	Gencor Stacking Conveyor	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	J C Steele Feeder	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP -2	Hoover Belt Conveyor No. 1	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	J C Steele Disintegrator	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	Hoover Belt Conveyor No. 2	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	J C Steele Smooth Roll Crusher	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
EP -2	Hoover Belt Conveyor No. 3	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
FUG	J C Steele Pre-Pug Mill	PM	N/A	N/A
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01
EP -2	Hoover Belt Conveyor No. 4	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO
FUG	J C Steele Vacuum Pug and Extruder	PM	N/A	N/A
		Opacity	20% with one six minute period up to 40% in any one hour period	ADEM Admin. Code r. 335-3-4-.01

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP -2	Hoover Belt Conveyor No. 5 Noodle Stacking	PM	0.032 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7% for building opening	40 CFR 60, Subpart OOO

200 TPH Conveying, Crushing and Extruding Circuit

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
2. This source is subject to the New Source Performance Standards for NonMetallic Mineral Processing Plants, 40 CFR Part 60 Subpart 000 for particulate matter.	Rule 335-3-4-.04 and 40 CFR Part 60 Subpart 000
3. This source is subject to the applicable requirements of Rule 335-3-4-.01 and 40 CFR Part 60 Subpart 000 for opacity.	Rule 335-3-4-.01 and 40 CFR Part 60 Subpart 000
<u>Emission Standards</u>	
1. Particulate emissions from this unit shall not exceed 0.032 g/dscm.	40 CFR Part 60 Subpart 000
2. Particulate visible emissions from this unit shall not exceed 7 percent opacity.	40 CFR Part 60 Subpart 000
<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. Alternate methods may be utilized if approved in advance by the Department.	Rule 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A shall be used in the determination of opacity. Alternate methods may be utilized if approved in advance by the Department.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. Mineral Manufacturing shall perform an observation of visible emissions on a weekly basis on a designated belt conveyor (emission point 12). The observation shall be accomplished for a minimum of six minutes. The average Method 9 opacity during the six-minute period shall not exceed seven percent (7%).	40 CFR Part 60 Subpart 000

Federally Enforceable Provisos**Regulations**

Mineral Manufacturing shall notify the Department in writing within twenty-four (24) hours if the visible emissions are at or above seven percent (7%) opacity during a Method 9 six-minute observation. The Method 9 six-minute observation shall be submitted if notification is required.

The notification shall include the following:

- (a) The duration of the occurrence
- (b) The corrective action taken and/or preventative measures adopted

Visible emission observations will be conducted in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 2. Mineral Manufacturing shall, at all times, have personnel (whether Mineral Manufacturing staff or contractor) readily available who are certified in performing EPA Reference Method 9 observations to determine if visible emission problems exist and to conduct the appropriate EPA Reference Method 9 observations when conditions are favorable.
- 3. 40 CFR Part 64 Compliance Assurance PM monitoring shall be conducted in accordance with the attached Appendix.

Rule 335-3-16-.05

40 CFR Part 64

Recordkeeping and Reporting Requirements

- 1. Records of EPA Reference Method 9 certification shall be maintained on site for each individual certified in conducting EPA Reference Method 9 observations and made available upon request.
- 2. Records of any EPA Reference Method 9 tests conducted shall be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.
- 3. A semi-annual monitoring report shall be submitted to the Department according to the following schedule:

Rule 335-3-16-.05

Rule 335-3-16-.05

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

Reporting Period	Due Date
June 1, 2026 – November 30, 2026	January 30, 2027
December 1, 2026 – May 31, 2027	July 31, 2027
June 1, 2027 – November 30, 2027	January 30, 2028
December 1, 2027 – May 31, 2028	July 31, 2028
June 1, 2028 – November 30, 2028	January 30, 2029
December 1, 2028 – May 31, 2029	July 31, 2029
June 1, 2029 – November 30, 2029	January 30, 2030
December 1, 2029 – May 31, 2030	July 31, 2030
June 1, 2030 – November 30, 2030	January 30, 2031
December 1, 2030 – May 31, 2031	July 31, 2031

Federally Enforceable Provisos	Regulations
4. Each semi-annual report shall contain the following information: (a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emission, observed opacity, and any corrective actions initiated; (b) Copy of every visible emissions observation report generated during the reporting period; (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required; (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and (e) Signature of the responsible official as required by General Permit Proviso No. 9.	Rule 335-3-16-.05(c)(3)

Compliance Assurance Monitoring (CAM) Plan

Emission Unit: Conveying, Crushing, and Extruding Circuit (Operating Permit Summary No. 002)

Pollutant: Particulate Matter

Control Technology: None

CAM Monitoring Approach	
	Indicator No. 1
General Criteria: Describe the monitoring approach used to measure the indicators.	One six-minute EPA Method 9 observation performed on one of the emission points on a weekly basis. The representative emission point is EP-12, Hoover Belt Conveyor No. 1.
Establish the appropriate indicator range of the procedures for establishing the indicator range which provides a reasonable assurance of compliance.	The indicator level is an opacity less than 7% (6-min. avg.) for EP-12, Hoover Belt Conveyor No. 1.
Performance Criteria: Provide the Specification for Obtaining Representative Data:	Observations are performed by a certified observer.
Provide Verification Procedures, including manufacturer's recommendations to confirm the operational status of the monitoring:	Continuous training and certification of the VE observer.
Provide Quality Assurance and Quality Control (QA/QC) Practices that are adequate to ensure the continuing validity of the data, considering manufacturer's recommendations:	Observer is certified every six months.
Provide the monitoring frequency:	Once per week when unit is operating.
Provide the data collection procedures that will be used:	Method 9 observations recorded manually by a certified observer.
Provide the data averaging period for the purpose of determining whether an excursion or exceedance has occurred:	Six-minutes
Rationale and Justification	
Indicators and Monitoring Approach:	
Visible emissions were selected as performance indicator because it is indicative of the dust generated by the material handling process. This site chosen was EP-12, Hoover Belt Conveyor No. 1, which has the most stringent opacity standard of 7%, and is the first transfer point in the circuit. The material has a high moisture content and is not prone to becoming dusty. The process is enclosed in a building such that any emissions are immediately noticeable.	

Indicator Ranges:

The indicator range for opacity is a six-minute average opacity of less than 12 or 7 percent for the crushers and conveyors. This range was selected based on the facility's permit requirements.

Operating Permit Summary No. 003

25 TPH Conveying, Crushing, Screening and Sacking Circuit

Control Device: Baghouse

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to 40 CFR Part 60 Subpart OOO. This equipment is located in an enclosed building that is subject to an emission limit of 7% opacity.

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-3	Chantland Feeder Conveyor No. 1	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Chantland Feeder Conveyor No. 2	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	SEMCO Crusher	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Bucket Elevator	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Midwestern Screen Deck Screens	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO

25 TPH Conveying, Crushing, Screening and Sacking Circuit

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-3	Product Storage Bin 1	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Product Storage Bin 2	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Product Storage Bin 3	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	Product Storage Bin 4	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	2 Ton Super Sack Bulk Bagger No. 1	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	2 Ton Super Sack Bulk Bagger No. 2	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	2 Ton Super Sack Bulk Bagger No. 3	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO
EP-3	2 Ton Super Sack Bulk Bagger No. 4	PM	0.05 g/dscm	40 CFR 60, Subpart OOO
		Opacity	7%	40 CFR 60, Subpart OOO

25 TPH Conveying, Crushing, Screening and Sacking Circuit

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
2. This source is subject to the New Source Performance Standards for NonMetallic Mineral Processing Plants, 40 CFR Part 60 Subpart 000 for particulate matter.	40 CFR Part 60 Subpart 000
3. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart 000 for opacity.	40 CFR Part 60 Subpart 000
<u>Emission Standards</u>	
1. Particulate emissions from this unit shall not exceed 0.05g/dscm.	40 CFR Part 60 Subpart 000
2. Particulate visible emissions from this unit shall not exceed 7 percent opacity.	40 CFR Part 60 Subpart 000
<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. Alternate methods may be utilized if approved in advance by the Department	Rule 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A shall be used in the determination of opacity. Alternate methods may be utilized if approved in advance by the Department.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. A properly maintained and operated device shall be utilized to measure the pressure differential across the baghouse.	Rule 335-3-16-.05
2. The pressure differential across the baghouse shall measure within the range of 3 to 7 inches of water.	Rule 335-3-16-.05
3. Mineral Manufacturing shall inspect the pressure differential measuring device associated with the pollution control equipment on a daily basis while it is operating.	Rule 335-3-16-.05
If problems are observed with the device, then corrective actions shall be initiated within 24 hours.	

Federally Enforceable Provisos	Regulations
4. Mineral Manufacturing shall inspect each pollution control device daily for visible emissions while each unit is operating.	Rule 335-3-16-.05
If visible emissions are observed, then corrective actions shall be initiated within 24 hours.	
5. Mineral Manufacturing shall perform an observation of visible emissions on a weekly basis. Each observation shall be accomplished for a minimum of six minutes. If the average Method 9 opacity during the six-minute period exceeds seven percent (7%), the facility shall conduct a second Method 9 six-minute opacity reading within thirty minutes of the initial observation. If the average opacity during both six-minute observations exceeds fifteen percent (15%), Mineral Manufacturing shall conduct an inspection of the applicable control device to determine the cause of the visible emissions.	Rule 335-3-16-.05
Mineral Manufacturing shall notify the Department in writing within twenty-four (24) hours if the visible emissions are at or above twenty percent (20%) opacity during a Method 9 six-minute observation. Both Method 9 six-minute observations shall be submitted if notification is required.	
The notification shall include the following: (a) The duration of the occurrence (b) The results of the inspection of the control device (c) The corrective action taken and/or preventative measures adopted	
Visible emission observations will be conducted in accordance with 40 CFR Part 60, Appendix A, Method 9.	
6. Mineral Manufacturing shall perform an inspection of the baghouse to verify proper operation.	Rule 335-3-16-.05
The following activities shall be performed	
(a) Once per month, check the hopper, fan, and cleaning cycle for proper operation.	
(b) Once per month, perform an inspection of all hoods and ductwork.	
(c) Once per month, inspect and document that the bags are performing effectively.	
(d) Record any repairs or observed problems.	
7. Mineral Manufacturing shall, at all times, have personnel (whether Mineral Manufacturing staff or contractor) readily	Rule 335-3-16-.05

Federally Enforceable Provisos**Regulations**

available who are certified in performing EPA Reference Method 9 observations to determine if visible emission problems exist and to conduct the appropriate EPA Reference Method 9 observations when conditions are favorable.

Rule 335-3-16-.05

8. Mineral Manufacturing shall, at all times, maintain personnel (whether Mineral Manufacturing staff or contractor) on site who are knowledgeable in the maintenance of emissions control equipment (whether control devices or suppression systems).

40 CFR Part 64

9. 40 CFR Part 64 Compliance Assurance PM monitoring shall be conducted in accordance with the attached Appendix.

Recordkeeping and Reporting Requirements

1. Records of the inspection and of any repairs made to each pressure differential measuring device must be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.

Rule 335-3-16-.05

2. Records of the inspection and of any repairs made to each pollution control device and each piece of process equipment must be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.

Rule 335-3-16-.05

3. Records of EPA Reference Method 9 certification shall be maintained on site for each individual certified in conducting EPA Reference Method 9 observations and made available upon request.

Rule 335-3-16-.05

4. Records of any EPA Reference Method 9 tests conducted shall be kept in permanent form suitable for inspection. These records shall be retained for at least five (5) years and made available upon request.

Rule 335-3-16-.05

5. A semi-annual monitoring report shall be submitted to the Department according to the following schedule:

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

Reporting Period	Due Date
June 1, 2026 – November 30, 2026	January 30, 2027
December 1, 2026 – May 31, 2027	July 31, 2027
June 1, 2027 – November 30, 2027	January 30, 2028
December 1, 2027 – May 31, 2028	July 31, 2028
June 1, 2028 – November 30, 2028	January 30, 2029
December 1, 2028 – May 31, 2029	July 31, 2029
June 1, 2029 – November 30, 2029	January 30, 2030
December 1, 2029 – May 31, 2030	July 31, 2030
June 1, 2030 – November 30, 2030	January 30, 2031
December 1, 2030 – May 31, 2031	July 31, 2031

Federally Enforceable Provisos**Regulations**

6. Each semi-annual report shall contain the following information:

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

- (a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emission, observed opacity, and any corrective actions initiated;
- (b) Copy of every visible emissions observation report generated during the reporting period;
- (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
- (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and
- (e) Signature of the responsible official as required by General Permit Proviso No. 9.

Compliance Assurance Monitoring (CAM) Plan

Emission Unit: Conveying, Crushing, Screening and Sacking Circuit (Operating Permit Summary No. 003)

Pollutant: Particulate Matter

Control Technology: Pulse type dust collection system (Cartridge filter baghouse)

CAM Monitoring Approach		
	Indicator No. 1	Indicator No. 2
General Criteria: Describe the monitoring approach used to measure the indicators.	EPA Method 9 observations for Visible Emissions performed on a weekly basis.	Pressure drop across the baghouse measured daily on a differential pressure gauge.
Establish the appropriate Indicator range of the procedures for establishing the indicator range which provides a reasonable assurance of compliance.	The indicator level is an opacity less than 7% (6-min. avg.)	The indicator range is pressure drop between 3- and 7-inches H ₂ O.
Performance Criteria: Provide the Specification for Obtaining Representative Data:	Observations are performed at baghouse exhaust by a certified observer.	Pressure drop across the baghouse is measured using pressure taps at the baghouse inlet and exhaust.
Provide Verification Procedures, including manufacturer's recommendations to confirm the operational status of the monitoring:	Continuous training and certification of the VE observer.	See below.
Provide Quality Assurance and Quality Control (QA/QC) Practices that are adequate to ensure the continuing validity of the data, considering manufacturer's recommendations:	Observer is certified every six months.	Pressure gauge is calibrated and documented according to manufacturer's specifications. Also, pressure taps are checked for plugging.
Provide the monitoring frequency:	Once per week when unit is operating.	Pressure drop is measured daily.
Provide the data collection procedures that will be used:	Method 9 observations recorded manually by a certified observer.	Pressure drop manually recorded once daily in log book.
Provide the data averaging period for the purpose of determining whether an excursion or exceedance has occurred:	Six-minutes	Instantaneously

Rationale and Justification
Indicators and Monitoring Approach:
Visible emissions were selected as performance indicator because it is indicative of how well the baghouse is operating. The opacity standard for this unit is 7 percent. When the baghouse is operating properly, there should be minimal visible emissions from the exhaust. However, an increase in the opacity normally indicates a reduced efficiency of the baghouse, most likely due to torn or loose bags. A six-minute Method 9 observation is performed weekly.
Pressure drop across the baghouse can also be a good indicator of the operation of the baghouse. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, or the bags are becoming blinded. A decrease in pressure drop can indicate there are significant holes, tears, or missing bags. However, the opacity is a more sensitive indicator of damaged or missing bags than pressure drop.
Indicator Ranges:
The indicator range for opacity is a six-minute average opacity of 7 percent. This range was selected based on the facility's permit requirements.
The indicator range for baghouse pressure drop is a differential pressure between three and seven inches of water. This range was selected based on historical data obtained during stack tests, which show the typical pressure drop of around four inches of water.

Operating Permit Summary No. 004

676 Hp Caterpillar diesel-fired Emergency Generator

Control Device: Uncontrolled

Operating Schedule: $\leq$ 500 hours/year

This unit contains equipment that is subject to 40 CFR Part 60 Subpart ZZZZ (RICE MACT).
There are no emission limitations for this engine.

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	PM	Manufacturer's Certification Requirements	40 CFR Part 60, Subpart ZZZZ
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	SO ₂	Manufacturer's Certification Requirements	40 CFR Part 60, Subpart ZZZZ
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	CO	Manufacturer's Certification Requirements	40 CFR Part 60, Subpart ZZZZ
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	VOC	Manufacturer's Certification Requirements	40 CFR Part 60, Subpart ZZZZ
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	NO _x	Manufacturer's Certification Requirements	40 CFR Part 60, Subpart ZZZZ
EP-4	676 Hp Caterpillar diesel-fired Emergency Generator	Opacity	20%	Rule 335-3-4-.01

Permitted Fuels

Fuel
Diesel Fuel

676 Hp Caterpillar diesel-fired Emergency Generator

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the provisions of ADEM Admin. Code r. 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)."	Rule 335-3-11-06(103) 40 CFR 63, Subpart ZZZZ
3. This source is subject to the applicable requirements of Rule 335-3-4-.01 for opacity.	Rule 335-3-4-.01
<u>Emission Standards</u>	
1. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a source may discharge into the atmosphere from any source of emission, particulate of opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
2. This unit must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel.	40 CFR 1090.305
3. As an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than 50 hours per year as described below, is prohibited.	40 CFR 63
(a) There is no time limit on the use of emergency stationary RICE in emergency situations.	
(b) The emergency stationary RICE may be operated for any combination of the purposes specified in 40 CFR 63.6640(f)(2)(i) and 63.6640(f)(3) for a maximum of 100 hours per calendar year.	
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
Emissions Monitoring	
1. There are no source specific emissions monitoring provisions for this unit.	N/A
Recordkeeping and Reporting Requirements	
1. There are no source specific recordkeeping and reporting requirements for this unit.	N/A