Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

PERMITTEE:	FERROGLOBE USA BRIDGEPORT, LLC
FACILITY NAME:	FERROGLOBE USA BRIDGEPORT, LLC
FACILITY/PERMIT NO.:	705-0007
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: September 9, 2019

EFFECTIVE DATE: October 29, 2024

EXPIRATION DATE: September 8, 2024

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GENERAL PERMIT PROVISOS

Federally Enforceable Provisos	Regulations
1. **Transfer** 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).	Rule 335-3-16-.02(6)
2. **Renewals** 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.	Rule 335-3-16-.12(2)
3. **Severability Clause** 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 judgement 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.	Rule 335-3-16-.05(e)
4. **Compliance** (a) The permittee shall comply with all condition of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 19900 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.	Rule 335-3-16-.05(f)
(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.	Rule 335-3-16-.05(g)

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5. **Termination for Cause** This permit may be modified, revoked, reopened, and reissued, or terminated for cause. This 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.	Rule 335-3-16-.05(h)
6. **Property Rights** The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-16-.05(i)
7. **Submission of Information** 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 termination of this permit or to determine the 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.	Rule 335-3-16-.05(j)
8. **Economic Incentives, Marketable Permits, and Emissions Trading** 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.	Rule 335-3-16-.05(k)
9. **Certification of Truth, Accuracy, and Completeness** 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.	Rule 335-3-16-.07(a)

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10. **Inspection and Entry**	
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:	Rule 335.-3-16-.07(b)
(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 of parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. **Compliance Revisions**	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already compliance.	Rule 335-3-16-.07(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12. **Compliance Certification**	
A compliance certification shall be submitted annually by October 12th each year.	Rule 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;	

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(2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (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: Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
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 no 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.	Rule 335-3-16-.13(5)

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(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 of that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14. **Additional Rules and Regulations**	
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), Code of Alabama 1975, as amended
15. **Equipment Maintenance or Breakdown**	
(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:	Rule 335-3-1-.07(1), (2)
(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;	

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(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. (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 shall be notified when the breakdown has been corrected.	
16. **Operation of Capture and Control Devices** 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), Code of Alabama 1975, as amended
17. **Obnoxious Odors** 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.	Rule 335-3-1-.08
18. **Fugitive Dust** (a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.….	Rule 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.	

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A minimum of one, or a combination, of the following methods shall be utilized to minimize the airborne dust from plant or haul roads and grounds: (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 us found to allow the creation of dust emissions; (c) 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. **Additions and Revisions** Any modifications to this source shall comply with the modification procedures in Rule 335-3-16-.13 or 335-3-16-.14.	Rule 335-3-16-.13 and .14
20. **Recordkeeping Requirements** (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;	Rule 335-3-16-.05(c)(2)

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(5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. (b) Retention of records of all require 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).	Rule 335-3-16-.05(c)(3)
(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 preventative measures that were taken.	
22. **Emission Testing Requirements** (a) 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.	Rule 335-3-1-.05(3) Rule 335-3-1-.04(1)

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(b) 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. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	
(c) To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	
(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 person and/or testing company that will conduct the test;	Rule 335-3-1-.04
(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 operation, and the rated capacity;	
(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
(d) 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.	Rule 335-3-1-.04
(e) 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.	

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23. **Payment of Emission Fees**	
Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.	Rule 335-1-7-.04
24. **Other Reporting and Testing Requirements**	
Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	Rule 335-3-1-.04(1)
25. **Title VI Requirements (Refrigerants)**	
(a) 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.	40 CFR Part 82
(b) 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.	
(c) 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. **Chemical Accident Prevention Provisions**	
(a) If a chemical listed in Table 1 if 40 CFR Part 68.130 is present in a chemical process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68
(1) The owner or operator shall comply with the provisions in 40 CFR Part 83;	
(2) The owner or operator shall submit one of the following:	

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(i) A compliance schedule for meeting the requirements of 40 CFR Part 69 by the date provided in 40 CFR Part 68 §68.10(a); or (ii) A certification statement that the source is in compliance with all requirements of CFR Part 68, including the registration and submission of the Risk Management Plan.	
27. **Display of Permit** 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.	Rule 335-3-14-.01(1)(d)
28. **Circumventions** 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.	Rule 335-3-1-.10
29. **Visible Emissions** (a) 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. (b) At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. (c) Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4-.01(1)
30. **Fuel-Burning Equipment** (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.	Rule 335-3-4-.03

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(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.	Rule 335-3-5-.01
31. **Process Industries – General**	
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.	Rule 335-3-4-.04
32. **Averaging Time for Emission Limits**	
Unless otherwise specified in this permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-1-.05
33. **Compliance Assurance Monitoring (CAM)**	40 CFR Part 64
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 units are contained in the unit specific provisos and the attached CAM appendices.	
(a) Operation of Approved Monitoring	
(1) *Commencement of Operation.* The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(2) *Proper Maintenance.* At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	

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(3) *Continued Operation.* Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operation. 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) *Response to Excursions or Exceedances*	
(a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system),	

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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.

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

(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 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

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emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.

(2) Elements of a QIP:

1. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

2. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:

   (i) Improved preventive maintenance practices.

   (ii) Process operation changes.

   (iii) Appropriate improvements to control methods.

   (iv) Other steps appropriate to correct control performance.

   (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).

(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.

(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:

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(a) Failed to address the cause of the control device performance problems; or

(b) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(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.

(c) Reporting and Recordkeeping Requirements

(1) *General reporting requirements*

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.

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:

(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); and

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(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(2) *General recordkeeping requirements.*

(a) The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

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

(d) Savings Provisions

(1) Nothing in this part shall:

(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

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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	

SUMMARY PAGE FOR 40 MW ELECTRIC SUBMERGED ARC FURNACE WITH BAGHOUSE (EP001)

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

Emissions Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	PM	The greater of 0.99 lb/MW or Process Weight (see general provisos for process weight	Rule 335-3-4-.04(1) §60.262(a)(1)
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	PM	22.7 lb/hr	§64.3(b)(4)(ii)
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	SO_2	N/A	N/A
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	NO_X	N/A	N/A
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	CO	N/A	N/A
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	VOC	N/A	N/A
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	Opacity	See General Provisos	Rule 335-3-4-.01(1)
EP001	40 MW Electric Submerged Arc Furnace with Baghouse	PM	N/A	N/A

PROVISOS FOR 40 MW ELECTRIC SUBMERGED ARC FURNACE WITH BAGHOUSE (EP001)

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Applicability	
1. These sources are 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 only to the particulate matter emission rate limitation of 40 CFR Part 60 Subpart Z, "*Standards of Performance for Ferroalloy Production Facilities."*	40 CFR Part 60 Subpart Z
3. For particulate matter emissions, this unit is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso No. 33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the stack associated with the electric submerged arc furnace and baghouse shall not exceed the greater of 0.99 lb/MW-hr or the allowable as set by Rule 335-3-4-.04.	40 CFR §60.262(a)(1)& Rule 335-3-4-.04(1)
2. To prevent this unit from being required to collect four of more data values as required by 40 CFR §64.3(b)(4)(ii), particulate matter emissions associated with the electric arc furnace and baghouse shall not exceed the request limit of 22.7 lb/hr.	40 CFR §64.3(b)(4)(ii)
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "*Compliance Assurance Monitoring."*	40 CFR Part 64
2. The Permittee shall perform a weekly inspection of the main baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-16-.05(c)

PROVISOS FOR 40 MW ELECTRIC SUBMERGED ARC FURNACE WITH BAGHOUSE (EP001)

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(a) Check the hopper, fan, and cleaning cycle for proper operation; (b) Perform a visual check of all hoods and ductwork; (c) Record any repairs or observed problems.	
3. The Permittee shall perform an annual inspection of the main baghouse to verify proper operation. The following activities shall be performed: (a) Internal inspection or structure, access doors, and bags during major outages which occur at approximately 12-18 month intervals; (b) External inspection of all hoppers; (c) Record any repairs or observed problems.	Rule 335-3-16-.05(c)
Recordkeeping and Reporting Requirements 1. The Permittee shall provide a written report (by letter, fax, or email) to the Department by the 10th day of each month showing all periods when the furnace baghouse was not in operation during the preceding month. For each period the baghouse was not in operation, the report will describe or show the following: (a) The time the furnace was not in operation; (b) The time the baghouse was not in operation; (c) The baghouse down time that was in excess of the furnace down time; (d) The reason(s) the furnace and/or baghouse were not in operation; and (e) The total of the excess baghouse down time as a percentage of the furnace monthly operating time.	Administrative Order No. 88-072-AP

PROVISOS FOR 40 MW ELECTRIC SUBMERGED ARC FURNACE WITH BAGHOUSE (EP001)

Federally Enforceable Provisos	Regulations
2. The Permittee shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include problems observed and corrective actions taken. The records shall be retained for at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05(c)
3. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of at least five (5) years from the date of generation and shall be available upon request.	40 CFR Part 64
4. The Permittee shall maintain a record of all visible emissions observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of at least five (5) years from the date of generation and shall be available upon request.	40 CFR Part 64
5. The Permittee shall record the baghouse inlet temperature hourly. A record shall be kept of instances that the inlet temperature exceeds the action level (450°F) and the corrective action taken. Any deviations from the inlet temperature range (above 500°F) shall be documented along with the corrective action taken and reported to the Department within two (2) working days. Each record shall be maintained for a period of at least five (5) years from the date of generation and shall be available upon request.	40 CFR Part 64

SUMMARY PAGE FOR DUMP HOPPER (EP002)

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

Emissions Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP002	Dump Hopper with Baghouse	PM	Lesser of $E = 3.59(P)^{0.62}$ or 22.7 lb/hr	Rule 335-3-4-.04(1) §64.3(b)(4)(ii)
EP002	Dump Hopper with Baghouse	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR DUMP HOPPER (EP002)

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso No. 33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from this unit shall not exceed the lesser of that which is calculated using the process weight equation as defined in ADEM Admin. Code R. 335-3-4-.04(1) or the requested PM limit of 22.7 lb/hr.	Rule 335-3-4-.01(1) 40 CFR §64.3(b)(4)(ii)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, *"Compliance Assurance Monitoring."*	40 CFR Part 64
2. The Permittee shall perform a weekly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Check the capture hoods associated with this unit for fugitive emissions; and (b) Record any repairs or observed problems.	Rule 335-3-16-.05(c)
3. The Permittee shall perform a monthly inspection of the baghouse associated with this process to verify proper operation.	

PROVISOS FOR DUMP HOPPER (EP002)

Federally Enforceable Provisos	Regulations
The following activities shall be performed: (a) Check hopper, fan, and cleaning cycle for proper operation; (b) Perform a visual check of all hoods and ductwork; and (c) Record any repairs or observed problems.	
4. The Permittee shall perform an annual inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Internal inspection of structure, access doors, and bags; (b) External inspection of all hoppers; and (c) Record any repairs or observed problems.	
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include problems observed and corrective actions taken. The records shall be retained for at least five (5) years from the date of generation of the record and shall be available upon request.	Rule 335-3-16-.05(C)
2. The Permittee shall record the baghouse differential pressure daily. Any deviations from the pressure range shall be documented along with the corrective action and reported to the Department within two (2) working days. Each record shall be retained for a period of at least five (5) years from the date of generation and should be available upon request.	40 CFR Part 64

PROVISOS FOR DUMP HOPPER (EP002)

Federally Enforceable Provisos	Regulations
3. The facility shall maintain a record of all visible emissions observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be retained for a period of at least five (5) years from the date of generation and should be available upon request.	40 CFR Part 64

SUMMARY PAGE FOR PRIMARY CRUSHING AND SCREENING (EP003)

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

Emissions Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP003	Primary Crushing and Screening	PM	Lesser of $E = 3.59(P)^{0.62}$ or 22.7 lb/hr	Rule 335-3-4-.04(1) §64.3(b)(4)(ii)
EP003	Primary Crushing and Screening	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR PRIMARY CRUSHING AND SCREENING (EP003)

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring,"* to include General Proviso No. 33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from this unit shall not exceed the lesser of that which is calculated using the process weight equation as defined in ADEM Admin. Code R. 335-3-4-.04(1) or the requested PM limit of 22.7 lb/hr.	Rule 335-3-4-.04(1) 40 CFR §64.3(b)(4)(ii)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, *"Compliance Assurance Monitoring."*	40 CFR Part 64
2. The Permittee shall perform a weekly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Check the capture hoods associated with this unit for fugitive emissions; and (b) Record any repairs of observed problems.	Rule 335-3-16-.05(c)
3. The Permittee shall perform a monthly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed.	Rule 335-3-16-.05(c)

PROVISOS FOR PRIMARY CRUSHING AND SCREENING (EP003)

Federally Enforceable Provisos	Regulations
(a) Check hopper, fan, and cleaning cycle for proper operation; (b) Perform a visual check of all hoods and ductwork; and (c) Record any repairs or observed problems.	
4. The Permittee shall perform an annual inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Internal inspection of structure, access doors, and bags; (b) External inspection of all hoppers; and (c) Record any repairs or observed problems.	Rule 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include problems observed and corrective actions taken. The records shall be retained for a period of at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05(c)
2. The Permittee shall record the baghouse differential pressure daily. Any deviations from the pressure range shall be documented along with the corrective action taken and reported to the Department within two (2) working days. The records shall be retained for a period of at least five (5) years from the date of generation and shall be available upon request.	40 CFR Part 64
3. The Permittee shall maintain a record of all visible emissions observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. The records shall be retained for a period of at least five (5) years from the date of generation and shall be available upon request.	40 CFR Part 64

SUMMARY PAGE FOR SECONDARY CRUSHING AND SCREENING WITH BAGHOUSE (EP004)

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

Emissions Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP004	Secondary Crushing and Screening with Baghouse	PM	Lesser of $E = 3.59(P)^{0.62}$ or 22.7 lb/hr	Rule 335-3-4-.04(1) §64.3(b)(4)(ii)
EP004	Secondary Crushing and Screening with Baghouse	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR SECONDARY CRUSHING AND SCREENING (EP004)

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"* to include General Proviso No. 33	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from this unit shall not exceed the lesser of that which is calculated using the process weight equation as defined in ADEM Admin. Code R. 335-3-4-.04(1) or the requested PM limit of 22.7 lb/hr.	Rule 335-3-4-.04(1) 40 CFR §64.3(b)(4)(ii)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, *"Compliance Assurance Monitoring."*	40 CFR Part 64
2. The Permittee shall perform a weekly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Check the capture hoods associated with this unit for fugitive emissions; and (b) Record any repairs or problems observed.	Rule 335-3-16-.05(c)
3. The Permittee shall perform a monthly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed:	Rule 335-3-16-.05(c)

PROVISOS FOR SECONDARY CRUSHING AND SCREENING (EP004)

Federally Enforceable Provisos	Regulations
(a) Check hopper, fan, and cleaning cycle for proper operation; (b) Perform a visual check of all hoods and ductwork; and (c) Record any repairs or problems observed.	
4. The Permittee shall perform an annual inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Internal inspection of structure, access doors, and bags; (b) External inspection of all hoppers; and (c) Record any repairs or problems observed.	Rule 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include problems observed and corrective actions taken. The records shall be retained for a period of at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05(c)
2. The Permittee shall record the baghouse pressure daily. Any deviations from the pressure range shall be documented along with the corrective action and reported to the Department within two (2) working days. Each record shall be maintained for a period of 5 years.	40 CFR Part 64
3. The facility shall maintain a record of all visible emissions observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.	40 CFR Part 64

SUMMARY PAGE FOR CRUSHING AND SIZING SYSTEM (EP005)

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
EP005	Crushing and Sizing System with Baghouse	PM	$E = 3.59(P)^{0.62}$ or $E = 17.31(P)^{0.16}$	Rule 335-3-4-.04(1)
EP005	Crushing and Sizing System with Baghouse	PM	5.7 lbs/hr	Rule 335-3-14-.04 (Anti-PSD)
EP005	Crushing and Sizing System with Baghouse	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR CRUSHING AND SIZING SYSTEM (EP005)

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source has an enforceable limit in place to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	Rule 335-3-14-.04 [ANTI-PSD]
3. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso No. 33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from this unit shall not exceed 5.7 lb/hr and 24.9 TPY.	Rule 335-3-14-.04 [ANTI-PSD]
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, *"Compliance Assurance Monitoring."*	40 CFR Part 64
2. The Permittee shall perform a weekly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Check the capture hoods associated with this unit for fugitive emissions; and (b) Record any repairs or problems observed.	Rule 335-3-16-.05(c)

PROVISOS FOR CRUSHING AND SIZING SYSTEM (EP005)

Federally Enforceable Provisos	Regulations
3. The Permittee shall perform a monthly inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Check hopper, fan, and cleaning cycle for proper operation; (b) Perform a visual check of all hoods and ductwork; and (c) Record any repairs or problems observed.	Rule 335-3-16-.05(c)
4. The Permittee shall perform an annual inspection of the baghouse associated with this process to verify proper operation. The following activities shall be performed: (a) Internal inspection of structure, access doors, and bags; (b) External inspection of all hoppers; and (c) Record any repairs or problems observed.	Rule 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include problems observed and corrective actions taken. The records shall be retained for a period of at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05(c)
2. The Permittee shall record the baghouse pressure daily. Any deviations from the pressure range shall be documented along with the corrective action and reported to the Department within two (2) working days. Each record shall be maintained for a period of 5 years.	40 CFR Part 64

PROVISOS FOR CRUSHING AND SIZING SYSTEM (EP005)

Federally Enforceable Provisos	Regulations
3. The facility shall maintain a record of all visible emissions observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.	40 CFR Part 64

SUMMARY SILFUME HANDLING, TRANSPORT, AND STORAGE (EP006)

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
EP006	Three Silfume Silos, Pneumatic Conveyors with Bin Vent Filters	PM	$E = 3.59(P)^{0.62}$ or $E = 17.31(P)^{0.16}$	Rule 335-3-4-.04(1)
EP006	Three Silfume Silos, Pneumatic Conveyors with Bin Vent Filters	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR SILFUME HANDLING, TRANSPORT, AND STORAGE (EP006)

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
Emission Standards	
1. This source is subject to no additional specific requirements other than those listed in the General Provisos.	N/A
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. This source is subject to no additional specific requirements other than those listed in the General Provisos.	N/A
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional specific requirements other than those listed in the General Provisos.	N/A

SUMMARY PAGE FOR 587 HP DIESEL FIRED EMERGENCY GENERATOR

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
EP007	587 HP Diesel Fired Emergency Generator	PM	N/A	N/A
EP007	587 HP Diesel Fired Emergency Generator	SO_2	N/A	N/A
EP007	587 HP Diesel Fired Emergency Generator	NO_X	N/A	N/A
EP007	587 HP Diesel Fired Emergency Generator	CO	N/A	N/A
EP007	587 HP Diesel Fired Emergency Generator	VOC	N/A	N/A
EP007	587 HP Diesel Fired Emergency Generator	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR 587 HP DIESEL FIRED EMERGENCY GENERATOR

Federally Enforceable Provisos	Regulations
Applicability	
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 40 CFR Part 63 Subpart ZZZZ, *"National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)."*	40 CFR Part 63 Subpart ZZZZ
Emission Standards	
1. This unit shall not be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-03, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3 and for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency for more than 15 hours per calendar year.	40 CFR §63.6509(b)(1)(i)& §63.6640(f)(2)(ii),(iii)
2. These units may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of these units are limited to 100 hours per year. There is no time limit on the use of these units in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year . These units may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.	40 CFR §63.6640(f)(1)

PROVISOS FOR 587 HP DIESEL FIRED EMERGENCY GENERATOR

Federally Enforceable Provisos	Regulations
Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 63 Subpart ZZZZ, is prohibited.	
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	N/A
Recordkeeping and Reporting Requirements	
1. This source is subject to no additional specific requirements other than those listed in the General Provisos.	N/A

SUMMARY PAGE FOR 36 HP NATURAL GAS FIRED EMERGENCY GENERATOR

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
EP008	36 HP NG Fired Emergency Generator	PM	N/A	N/A
EP008	36 HP NG Fired Emergency Generator	SO_2	N/A	N/A
EP008	36 HP NG Fired Emergency Generator	NO_X	10 g/HP-hr	40 CFR Part 60 Subpart JJJJ
EP008	36 HP NG Fired Emergency Generator	CO	387 g/HP-hr	40 CFR Part 60 Subpart JJJJ
EP008	36 HP NG Fired Emergency Generator	VOC	N/A	N/A
EP008	36 HP NG Fired Emergency Generator	Opacity	See General Provisos	Rule 335-3-4-.01(1)

PROVISOS FOR 36 HP NATURAL GAS FIRED EMERGENCY GENERATOR

Federally Enforceable Provisos	Regulations
Applicability	
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 40 CFR Part 60 Subpart JJJJ, *"Standards of Performance for Stationary Spark Ignition Internal Combustion Engines."*	40 CFR Part 60 Subpart JJJJ
Emission Standards	
1. This unit is subject to the applicable emission standards listed in Table 1 of 40 CFR Part 60 Subpart JJJJ/	40 CFR §60.4233(d)
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
2. The facility must purchase an engine certified according to 40 CFR Part 60 Subpart JJJJ for the same model year and maximum engine power OR purchase a non-certified engine and demonstrate compliance with the applicable emission standards.	40 CFR §60.4243(b)
3. This unit must be installed and configured according to the manufacturer's specifications.	40 CFR §60.4243(a)(1)
4. The facility must operate and maintain this unit according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.	40 CFR §60.4243(a)(1)
5. These units may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of these units are limited to 100 hours per year. There is no time limit on the use of these units in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or	40 CFR §60.4243(d)

PROVISOS FOR 36 HP NATURAL GAS FIRED EMERGENCY GENERATOR

Federally Enforceable Provisos	Regulations
operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year . These units may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 60 Subpart JJJJ, is prohibited.	
Emission Monitoring	
1. If the unit does not meet the standards applicable to non-emergency generators, the facility must install a non-resettable hour meter upon startup of the unit.	§60.4237(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 60 Subpart JJJJ for a period of at least five (5) years from the date of occurrence, measurement, maintenance, corrective action, report, or record. The following records shall be kept: (a) All notifications submitted to comply with Subpart JJJJ and all documentation supporting any notification; (b) Maintenance conducted; (c) Documentation from the manufacturer that each engine is certified to meet the emission standards; and (d) Hours of operation of the unit that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation.	40 CFR §60.4245(a)(1),(2),(3) §60.4245(b)

APPENDIX A – CAM PLAN FOR 40 MW ELECTRIC SUBMERGED ARC FURNACE W/ BAGHOUSE (EP001)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Differential Pressure	Visible Emissions	Visible Inspections
Measurement Approach	Measured using an inlet pressure gauge.	Trained and qualified personnel will do a visible inspection.	The facility will visually inspect the hopper, fan, cleaning cycle, hoods, and ductwork once per week. The structure, access doors, bags, and hoppers will have an internal inspection during each major outage, which occurs at approximately 18 month intervals.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O or greater than 16.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as the presence of abnormal visible emissions (opacity greater than zero). Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion will defined as a missed weekly inspection or the failure to perform an internal inspection during each major outage, which occurs at approximately 18 month intervals.
III. Performance Criteria			
1. Data Representativeness	The inlet pressure gage has been properly situated to measure inlet air pressure to the device.	Observations will be taken at the exhaust outlet where the filtered air is introduced to the atmosphere.	These periodic inspections will identify system problems, which must be corrected to ensure proper operation.
2. Verification of Operation Status	Monitoring will only occur on those days when the furnace and baghouse are operational.	Monitoring will only occur on those days when the furnace and baghouse are operational.	Not Applicable
3. QA/QC Practices and Criteria	The pressure gauge will be tested and calibrated as required and in accordance with the manufacturer's recommendation.	The observer will receive on-the-job training, which will acclimate the observer to what constitutes normal/abnormal readings.	Not Applicable
4. Monitoring Frequency	At least once per hour on at least 90% of the operating days in a six-month period.	At least once per day on at least 90% of the operating days in a six-month period.	Weekly and at approximately 18 month intervals as noted.
5. Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	The visible emission inspection will be recorded with the time, date, and name of the observer.	The observer will document the results of each inspection
6. Averaging Period	Instantaneous	Instantaneous	Not Applicable

APPENDIX B – CAM PLAN FOR DUMP HOPPER (EP002)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Differential Pressure	Visible Emissions	Visible Inspections
Measurement Approach	Measured using an inlet pressure gauge.	Trained and qualified personnel will do a visible inspection.	The facility will visually inspect the hopper, fan, cleaning cycle, hoods, and ductwork once per week. The structure, access doors, bags, and hoppers will have an internal inspection during each major outage, which occurs at approximately 18 month intervals.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O or greater than 14.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as the presence of abnormal visible emissions (opacity greater than zero). Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion will defined as a missed weekly inspection or the failure to perform an internal inspection during each major outage, which occurs at approximately 18 month intervals.
III. Performance Criteria			
1. Data Representativeness	The inlet pressure gage has been properly situated to measure inlet air pressure to the device.	Observations will be taken at the exhaust outlet where the filtered air is introduced to the atmosphere.	These periodic inspections will identify system problems, which must be corrected to ensure proper operation.
2. Verification of Operation Status	Monitoring will only occur on those days when the unit is operational.	Monitoring will only occur on those days when the unit is operational.	Not Applicable
3. QA/QC Practices and Criteria	The pressure gauge will be tested and calibrated as required and in accordance with the manufacturer's recommendation.	The observer will receive on-the-job training, which will acclimate the observer to what constitutes normal/abnormal readings.	Not Applicable
4. Monitoring Frequency	At least once per day on at least 90% of the operating days in a six-month period.	At least once per week on at least 90% of the operating days in a six-month period.	Weekly and at approximately 18 month intervals as noted.
5. Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	The visible emission inspection will be recorded with the time, date, and name of the observer.	The observer will document the results of each inspection
6. Averaging Period	Instantaneous	Instantaneous	Not Applicable

APPENDIX C – CAM PLAN FOR PRIMARY CRUSHING AND SCREENING (EP003)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Differential Pressure	Visible Emissions	Visible Inspections
Measurement Approach	Measured using an inlet pressure gauge.	Trained and qualified personnel will do a visible inspection.	The facility will visually inspect the hopper, fan, cleaning cycle, hoods, and ductwork once per week, The structure, access doors, bags, and hoppers will have an internal inspection during each major outage, which occurs at approximately 18 month intervals.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O or greater than 14.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as the presence of abnormal visible emissions (opacity greater than zero). Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion will be defined as a missed weekly inspection or the failure to perform an internal inspection during each major outage, which occurs at approximately 18 month intervals.
III. Performance Criteria			
1. Date Representativeness	The inlet pressure gauge has been properly situated to measure inlet air pressure to the device.	Observations will be taken at the exhaust outlet where the filtered air is introduced to the atmosphere.	These periodic inspections will identify system problems, which must be corrected to ensure proper operation.
2. Verification of Operation Status	Monitoring will only occur on those days when the unit is operational.	Monitoring will only occur on those days when the unit is operational.	Not applicable.
3. QA/QC Practices and Criteria	The pressure gauge will be tested and calibrated as required and in accordance with the manufacturer's recommendation.	The observer will receive on-the-job training, which will acclimate the observer to what constitutes normal/abnormal readings.	Not applicable.
4. Monitoring Frequency	At least once per day on at least 90% of the operating days in a six month period.	At least once per day on at least 90% of the operating days in a six month period.	Weekly and at approximately 18 month intervals as noted.
5. Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	The visible emission inspection will be recorded with the time, date, and name of the observer.	The observer will document the results of each inspection.
6. Averaging Period	Instantaneous	Instantaneous	Instantaneous

APPENDIX D – CAM PLAN FOR SECONDARY CRUSHING AND SCREENING (EP004)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Differential Pressure	Visible Emissions	Visible Inspections
Measurement Approach	Measured using an inlet pressure gauge.	Trained and qualified personnel will do a visible inspection.	The facility will visually inspect the hopper, fan, cleaning cycle, hoods, and ductwork once per week, The structure, access doors, bags, and hoppers will have an internal inspection during each major outage, which occurs at approximately 18 month intervals.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O or greater than 14.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as the presence of abnormal visible emissions (opacity greater than zero). Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion will be defined as a missed weekly inspection or the failure to perform an internal inspection during each major outage, which occurs at approximately 18 month intervals.
III. Performance Criteria			
1. Date Representativeness	The inlet pressure gauge has been properly situated to measure inlet air pressure to the device.	Observations will be taken at the exhaust outlet where the filtered air is introduced to the atmosphere.	These periodic inspections will identify system problems, which must be corrected to ensure proper operation.
2. Verification of Operation Status	Monitoring will only occur on those days when the unit is operational.	Monitoring will only occur on those days when the unit is operational.	Not applicable.
3. QA/QC Practices and Criteria	The pressure gauge will be tested and calibrated as required and in accordance with the manufacturer's recommendation.	The observer will receive on-the-job training, which will acclimate the observer to what constitutes normal/abnormal readings.	Not applicable.
4. Monitoring Frequency	At least once per day on at least 90% of the operating days in a six month period.	At least once per day on at least 90% of the operating days in a six month period.	Weekly and at approximately 18 month intervals as noted.
5. Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	The visible emission inspection will be recorded with the time, date, and name of the observer.	The observer will document the results of each inspection.
6. Averaging Period	Instantaneous	Instantaneous	Instantaneous

APPENDIX E – CAM PLAN FOR CRUSHING AND SIZING SYSTEM (EP005)

	Indicator 1	Indicator 2	Indicator 3
IV. Indicator	Differential Pressure	Visible Emissions	Visible Inspections
Measurement Approach	Measured using an inlet pressure gauge.	Trained and qualified personnel will do a visible inspection.	The facility will visually inspect the hopper, fan, cleaning cycle, hoods, and ductwork once per week, The structure, access doors, bags, and hoppers will have an internal inspection during each major outage, which occurs at approximately 18 month intervals.
V. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O or greater than 14.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as the presence of abnormal visible emissions (opacity greater than zero). Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion will be defined as a missed weekly inspection or the failure to perform an internal inspection during each major outage, which occurs at approximately 18 month intervals.
VI. Performance Criteria			
7. Date Representativeness	The inlet pressure gauge has been properly situated to measure inlet air pressure to the device.	Observations will be taken at the exhaust outlet where the filtered air is introduced to the atmosphere.	These periodic inspections will identify system problems, which must be corrected to ensure proper operation.
8. Verification of Operation Status	Monitoring will only occur on those days when the unit is operational.	Monitoring will only occur on those days when the unit is operational.	Not applicable.
9. QA/QC Practices and Criteria	The pressure gauge will be tested and calibrated as required and in accordance with the manufacturer's recommendation.	The observer will receive on-the-job training, which will acclimate the observer to what constitutes normal/abnormal readings.	Not applicable.
10. Monitoring Frequency	At least once per day on at least 90% of the operating days in a six month period.	At least once per day on at least 90% of the operating days in a six month period.	Weekly and at approximately 18 month intervals as noted.
11. Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	The visible emission inspection will be recorded with the time, date, and name of the observer.	The observer will document the results of each inspection.
12. Averaging Period	Instantaneous	Instantaneous	Instantaneous