Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: **MUELLER CO.**

FACILITY NAME: **MUELLER CO.**

FACILITY NO.: 711–0013

LOCATION: ALBERTVILLE, MARSHALL COUNTY, AL

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 OPERATE THE EQUIPMENT, DEVICE, OR OTHER ARTICLE DESCRIBED HEREIN.

PURSUANT TO THE **CLEAN AIR ACT OF 1990**, ALL CONDITIONS OF THIS PERMIT ARE FEDERALLY ENFORCEABLE BY THE U.S. 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 THE U.S. EPA AND CITIZENS IN GENERAL. THOSE PROVISIONS ARE CONTAINED IN SEPARATE SECTIONS OF THIS PERMIT.

ISSUANCE DATE: **AUGUST XX, 2025**

EFFECTIVE DATE: **AUGUST 26, 2025**

EXPIRATION DATE: **AUGUST 25, 2030**

This document draft has been approved for public notice and comments.
ADEM – AIR – Energy – IMS
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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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MSOP 711–0013, Proviso x.x

CHAPTER I — GENERAL PERMIT PROVISOS

Section 1– General Permit Provisos

Federally Enforceable Provisos	Regulations
1.1 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)
1.2 RENEWALS	
(a) 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.	Rule 335-3-16-.12(2)
(b) 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.	
1.3 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 judgment shall not affect, impair, or invalidate the remainder of this Permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, 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)
1.4 COMPLIANCE	
(a) The permittee shall comply with all conditions of ADEM Admin. Code r. 335-3. Noncompliance with this Permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code r. 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)
1.5 TERMINATION FOR CAUSE	
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.	Rule 335-3-16-.05(h)

Federally Enforceable Provisos	Regulations
1.6 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)
1.7 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 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.	Rule 335-3-16-.05(j)
1.8 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)
1.9 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)
1.10 Inspection and Entry	
(a) 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: (1) 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; (2) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this Permit; (3) 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; and (4) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this Permit or other applicable requirements.	Rule 335-3-16-.07(b)

Federally Enforceable Provisos	Regulations
1.11 COMPLIANCE PROVISIONS	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in 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.	
1.12 COMPLIANCE CERTIFICATION	
(a) A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this Permit.	Rule 335-3-16-.07(e)
(1) The compliance certification shall include the following:	
(i) The identification of each term or condition of this Permit that is the basis of the certification;	
(ii) The compliance status;	
(iii) 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);	
(iv) Whether compliance has been continuous or intermittent; and	
(v) Such other facts as the Department may require to determine the compliance status of the source;	
(2) 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 EPA's Compliance and Emissions Data Reporting Interface (CEDRI)	

Federally Enforceable Provisos	Regulations
1.13 REOPENING FOR CAUSE	
(a) Under any of the following circumstances, this Permit will be reopened prior to the expiration of the permit:	Rule 335-3-16-.13(5)
(1) 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.	
(2) 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.	
(3) 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.	
(4) The Administrator or the Department determines that this Permit must be revised or revoked to assure compliance with the applicable requirements.	
1.14 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.	Ala. Code § 22-28-16(d), *as amended*

Federally Enforceable Provisos	Regulations
1.15 EQUIPMENT MAINTENANCE OR BREAKDOWN	
(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) 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; and (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	Rule 335-3-1-.07(1),(2)
(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.	
1.16 OPERATION OF CAPTURE AND CONTROL DEVICES	
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.	Ala. Code § 22-28-16(d), *as amended*

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1.17 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
1.18 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. 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: (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; or (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.	
(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.	
1.19 ADDITIONS AND REVISIONS	
Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or .14.	Rule 335-3-16-.13 & .14

Federally Enforceable Provisos	Regulations
1.20 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; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement.	Rule 335-3-16-.05(c)2.
(b) Retention of records of all required monitoring data and support information of the source shall be maintained 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	
1.21 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 preventive measures that were taken.	

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1.22 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)
(b) The Air Division must be notified in writing at least ten (10) days prior to any emission test, unless otherwise stated, to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
(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, hoe many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	
(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
(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.	
(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.	
1.23 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
1.24 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)

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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 Appendices A and B to Subpart A of 40 CFR Part 82 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, Subpart F
(1) 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.	
(2) 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.	
1.26 CHEMICAL ACCIDENTAL PREVENTION PROVISIONS	
(a) If a chemical listed in Table 1 to 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
(1) The owner or operator shall comply with the provisions in 40 CFR Part 68.	
(2) The owner or operator shall submit one of the following:	
(i) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or	
(ii) 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.	
1.27 DISPLAY OF PERMIT	
This Permit shall be kept under file or on display at all times at the site where This facility for which this Permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.	Rule 335-3-14-.01(1)(d)
1.28 CIRCUMVENTION	
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 any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	Rule 335-3-1-.10

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1.29 VISIBLE EMISSIONS	
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 Method 9 of Appendix A-4 to 40 CFR Part 60, unless otherwise specified in the Unit Specific Provisos of this Permit.	Rule 335-3-4-.01(1)
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
(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
1.31 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
1.32 AVERAGING TIME FOR EMISSION LIMITS	
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.	Rule 335-3-1-.05
1.33 COMPLIANCE ASSURANCE MONITORING (CAM)	
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.	
(a) ***Operation of Approved Monitoring —***	40 CFR 64.7
(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 40 CFR 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 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) **Response to excursions or exceedances.** (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, 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.	

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(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 paragraph (a)(4)(ii) 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% 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 percentage 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:**	40 CFR 64.8
(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 preventive maintenance practices.	
(B) Process operation changes.	
(C) Appropriate improvements to control methods.	
(D) Other steps appropriate to correct control performance.	
(E) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (A) through (D) above).	

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(iii) 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.	
(iv) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (a)(4)(ii) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have: (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.	
(v) 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 CFR 64.9
(1) **General reporting requirements:**	
(i) On and after the date specified in paragraph (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 paragraph (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:** (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.	

Federally Enforceable Provisos	Regulations
(d) ***Savings Provisions —*** (1) Nothing in this part shall: (i) 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 requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part. (ii) 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. (iii) 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.	40 CFR 64.10

CHAPTER II — FOUNDRY OPERATIONS

Section 2 – Metal Melting & Treatment Operations (EP-001, -017, & -018)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

EMISSION LIMITATIONS				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-001	3 Ajax EIF w/ Baghouse	PM – or – MHAP	0.005 gr/dscf	40 CFR 63.7690(a)(1)(i)
			0.0004 gr/dscf	40 CFR 63.7690(a)(1)(ii)
		PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
			7.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
EP-017	2 Coreless EIF (10 TPH) & Ductile Iron Treatment w/ Shared Baghouse	PM – or – MHAP	0.005 gr/dscf	40 CFR 63.7690(a)(1)(i)
			0.0004 gr/dscf	40 CFR 63.7690(a)(1)(ii)
		PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
			4.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
Fugitives	Scrap Handling / Foundry Buildings	Opacity	20%/27%	40 CFR 63.7690(a)(7)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

***NOTE:** The 1 Coreless EIF (10 TPH) and Ductile Iron Treatment share a combined Anti-PSD limit of 4.0 lb/hr.*

Provisos for Metal Melting & Treatment Operations (EP-001, -017, & -018)

Federally Enforceable Provisos	Regulations
2.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16-.03 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.02(3) — *Control of Particulate Emissions: Fugitive Dust and Fugitive Emissions*;	Rule 335-3-4-.02
(4) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(5) 40 CFR Part 63, Subpart EEEEE — *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries* (Subpart EEEEE); and	Rule 335-3-11-.06(108) 40 CFR 63.7681
(6) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in *Table 1 to Subpart EEEEE*.	Rule 335-3-11-.06(1) 40 CFR 63.7760
(b) These sources have an enforceable limit to prevent them from being subject to the applicable provisions of the following:	Rule 335-3-14-.04 (Anti-PSD)
(1) ADEM Admin. Code r. 335-3-14-.04 — *Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration [PSD])*.	
(c) ***40 CFR Part 64: Compliance Assurance Monitoring —***	
(1) **EP-001 & EP-017 —**	40 CFR 64.2(b)(1)(i)
(i) The emission limitations under Subpart EEEEE were promulgated by the EPA after November 15, 1990, pursuant to section 112 of the *Clean Air Act, as amended* (the Act), which meet or exceed the standards under 40 CFR Part 64, *Compliance Assurance Monitoring* (CAM), and Subpart EEEEE provides specific emissions limitations and monitoring requirements for electric induction furnaces (EIF). Therefore, the EIF and control devices associated with EP-001 and EP-017 are exempt from the provisions of 40 CFR Part 64 by complying with monitoring requirements of Subpart EEEEE.	

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2.2 EMISSION STANDARDS	
(a) ***General —***	40 CFR 63.7710(a)
(1) The Permittee shall always operate and maintain these units, including any associated capture and control devices and monitoring equipment, in a manner consistent good air pollution control practices for minimizing emissions.	
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emissions limitations:	40 CFR 63.7690
(1) **All Sources —**	
(i) *Visible Emissions* —	
(A) All visible emissions, as determined by rolling six-minute average (SMA), shall not exceed the opacity limitations as specified under Proviso 1.29	Rule 335-3-4-.01(1)
(ii) *Particulate Matter* (PM) —	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31.	Rule 335-3-4-.04
(2) **Structures and Buildings Housing Foundry Emissions Sources —**	
(i) *Visible Emissions & Fugitive Emissions* —	
(A) The Permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (SMA), except for one SMA per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7)
(3) **EP-001 —**	
(i) *Particulate Matter* (PM) — Limit to the lesser of the following:	
(A) 0.005 gr/dscf, and	40 CFR 63.7690(a)(1)(i)
(B) 7.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
(C) As an alternative to the PM emission standard in Proviso 2.2(b)(3)(i)(A), the Permittee may limit total metal HAP (MHAP) emissions to 0.0004 gr/dscf.	40 CFR 63.7690(a)(1)(ii)
(4) **EP-017 —**	
(i) *Particulate Matter* (PM) — Limit to the lesser of the following:	
(A) 0.005 gr/dscf, and	40 CFR 63.7690(a)(1)(i)
(B) 4.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)

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(C) As an alternative to the PM emission standard in Proviso 2.2(b)(4)(i)(A), the Permittee may limit total metal HAP (MHAP) emissions to 0.0004 gr/dscf.	40 CFR 63.7690(a)(1)(ii)
(c) ***Operational Limitations*** — The Permittee shall comply with the following operational requirements:	
(1) **General —**	
(i) Always operate and maintain the iron and steel foundry, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by Subpart EEEEE.	40 CFR 63.7710(a)
(ii) Prepare and operate at all times according to the prescribed operations & maintenance plan (OMP) specified under Proviso 2.2(d).	40 CFR 63.7710(b)
(2) **Metallic Scrap Management Plan —**	
(i) For each segregated scrap storage area, bin, or pile, the Permittee shall comply with Provisos 2.2(c)(2)(ii) or 2.2(c)(2)(iii).	40 CFR 63.7700(a)
(A) The Permittee may have certain scrap subject to Proviso 2.2(c)(2)(ii) and other scrap subject to Proviso 2.2(c)(2)(iii), provided the scrap remains segregated until charge make-up.	
(ii) *Scrap Certification* — The Permittee shall adhere to the following:	40 CFR 63.7700(b)
(A) Certify that the foundry purchases and uses only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics, or free organic liquids.	
(I) "Free organic liquids" is defined under Proviso 2.3(b)(1)(iv).	
(B) Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification.	
(iii) *Scrap Selection & Inspection Plan* — The Permittee shall adhere to the following:	40 CFR 63.7700(c)
(A) Prepare and operate at all times according to a written plan for the selection and inspection of iron and steel scrap to minimize, to the extent practicable, the amount of organics and HAP metals in the charge materials.	

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(I) This scrap selection and inspection plan is subject to approval by the Department.	
(II) The Permittee shall maintain a copy of the plan onsite and readily available to all plant personnel with materials acquisition or inspection duties.	
(III) The Permittee shall provide a copy of these material specifications to each scrap vendors.	
(IV) Each plan shall include the information in Provisos 2.2(c)(2)(iii)(B) through 2.2(c)(2)(iii)(D).	
(B) Limiting Organic Contaminants —	40 CFR 63.7700(c)(1)
(I) The Permittee shall ensure that all scrap materials shall be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, and organic liquids.	
(II) The Permittee shall develop a program to ensure the scrap materials are drained of free liquids.	
(C) Limiting HAP Metals — The Permittee shall perform one of the following:	40 CFR 63.7700(c)(2)
(I) Obtain and maintain onsite a copy of the procedures used by each scrap supplier for either removing accessible mercury switches and lead components or for purchasing automobile bodies that have had mercury switches and lead components removed, as applicable;	
— OR —	
(II) Document all attempts to obtain a copy of these procedures from the scrap suppliers servicing the surrounding area.	
(D) Material Inspection Plan — The Permittee shall conduct a visual inspection of a representative portion, but not less than 10%, of all incoming scrap shipments to ensure all materials meet the above material specifications. These procedures shall address the following elements:	40 CFR 63.7700(c)(3)
(I) Identify the location(s) where inspections are to be performed for each type of shipment, which may be performed at the scrap supplier's facility. The selected location(s) must provide a reasonable vantage point, considering worker safety, for visual inspection.	40 CFR 63.7700(c)(3)(i)
(II) Recordkeeping requirements that document each visual inspection and the results.	40 CFR 63.7700(c)(3)(ii)

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(III) Provisions for rejecting or returning entire or partial scrap shipments that do not meet specifications and limiting purchases from vendors whose shipments fail to meet specifications for more than three inspections in one calendar year.	40 CFR 63.7700(c)(3)(iii)
(IV) If the inspections are performed at the scrap supplier's facility, the inspection procedures must include an explanation of how the periodic inspections ensure that not less than 10% of scrap purchased from each supplier is subject to inspection.	40 CFR 63.7700(c)(3)(iv)
(d) ***Operation & Maintenance Plan (OMP) —*** The Permittee shall prepare and operate at all times according to a written OMP for the capture and collection systems and control devices for EP-001 and EP-017, which shall contain the following elements:	40 CFR 63.7710(b)
(1) **Monthly Inspections of Total Capture System —**	40 CFR 63.7710(b)(1)
(i) Inspections of all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches);	
(ii) Observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion); and	
(iii) Requirements to repair any defect or deficiency in the capture system as soon as practicable.	
(2) **Preventative Maintenance Plan —**	40 CFR 63.7710(b)(3)
(i) For the control device(s) associated with EP-001 and EP-017, a preventative maintenance plan including a preventative maintenance schedule consistent with the manufacturer's instruction for routine & long-term maintenance.	
(3) **Site-Specific Monitoring Plan (SSMP) —**	
(i) *Bag Leak Detection System (BLDS) —* As provided under Proviso 2.4(c)(1) and required by 40 CFR 63.7740(b), the Permittee shall operate and maintain each BLDS according to the SSMP at all times. The SSMP must address the following:	40 CFR 63.7710(b)(4)
(A) For each BLDS that operates on the triboelectric effect, the SSMP must be consistent with the recommendations contained in the U.S. Environmental Protection Agency guidance document "Fabric Filter Bag Leak Detection Guidance" (EPA–454/R–98–015);	40 CFR 63.7710(b)(4)
(B) Installation of the BLDS;	40 CFR 63.7710(b)(4)(i)
(C) Initial and periodic adjustment of the BLDS, including how the alarm set-point(s) will be established;	40 CFR 63.7710(b)(4)(ii)

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(D) Operation of the BLDS, including quality assurance and quality control (QA/QC) procedures;	40 CFR 63.7710(b)(4)(iii)
(E) How the BLDS will be maintained, including a routine maintenance schedule and spare parts inventory; and	40 CFR 63.7710(b)(4)(iv)
(F) How the BLDS output will be recorded and stored.	40 CFR 63.7710(b)(4)(v)
(ii) *Quality Control Program* — The Permittee shall develop and implement a quality control program for each continuous monitoring system (CMS).	40 CFR 63.8(d)(2)
(A) This quality control program shall include, at a minimum, a written protocol that described procedures for each of the following operations:	40 CFR 63.8(d)(2)
(I) Initial and any subsequent calibration of the CMS;	40 CFR 63.8(d)(2)(i)
(II) Determination and adjustment of the calibration drift of the CMS;	40 CFR 63.8(d)(2)(ii)
(III) Preventive maintenance of the CMS, including spare parts inventory;	40 CFR 63.8(d)(2)(iii)
(IV) Data recording, calculations, and reporting;	40 CFR 63.8(d)(2)(iv)
(V) Accuracy audit procedures, including sampling and analysis methods; and	40 CFR 63.8(d)(2)(v)
(VI) Program of corrective action for a malfunctioning CMS.	40 CFR 63.8(d)(2)(vi)
(4) **Corrective Action Plan —**	40 CFR 63.7710(b)(5)
(i) For each BLDS alarm triggered, the Permittee shall initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable.	40 CFR 63.7710(b)(5)
(ii) Corrective actions may include, but are not limited to, the following:	40 CFR 63.7710(b)(5)
(A) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions;	40 CFR 63.7710(b)(5)(i)
(B) Sealing off and/or replacing defective bags or filter media;	40 CFR 63.7710(b)(5)(ii) & (iii)
(C) Sealing off defective baghouse compartment(s);	40 CFR 63.7710(b)(5)(iv)
(D) Cleaning the BLDS probe;	40 CFR 63.7710(b)(5)(v)
(E) Making process changes;	40 CFR 63.7710(b)(5)(vi)
(F) Shutting down the process and/or units producing the PM emissions; and/or	40 CFR 63.7710(b)(5)(vii)

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(G) Conducting other repairs to the capture devices, control devices, or BLDS.	40 CFR 63.7710(b)(5)(iii) & (v) Rule 335-3-16-.05(a)
2.3 COMPLIANCE & PERFORMANCE TEST METHODS & PROCEDURES	
(a) ***General —***	
(1) The Permittee must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in accordance with Subpart EEEEE at all times, including during periods of startup, shutdown, and malfunctions.	40 CFR 63.7720(a)
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** To demonstrate compliance with the emissions limitations in Proviso 2.2(b), the Permittee shall conduct each performance test according to the following:	
(i) *Particulate Matter Emissions —*	
(A) All applicable procedures and requirements of 40 CFR 63.7732(b).	40 CFR 63.7732(b)
(B) Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	40 CFR 63.7732(b)(1)(v) Rule 335-3-16-.05(c)1.
(ii) *Total MHAP Emissions —*	
(A) All applicable procedures and requirements of 40 CFR 63.7732(c).	40 CFR 63.7732(c)
(B) Method 29 of Appendix A-8 to 40 CFR Part 60 shall be used in determining the concentration of MHAP emissions.	40 CFR 63.7732(c)(1)(v)
(iii) *Visible & Fugitive Emissions —*	
(A) All applicable requirements in 40 CFR 63.6(h)(5) and 63.7732(d).	40 CFR 63.7732(d)
(B) Using a certified observer, the Permittee may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure;	40 CFR 63.7732(d)(1)
— OR —	
(C) Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points may afford such an observation.	
(D) The minimum total time of opacity observations shall be 3 hours (*i.e.*, 30 6-minute averages).	40 CFR 63.6(h)(5)(ii)

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(E) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	40 CFR 63.7732(d)(1)
(iv) *Free Organic Liquids —*	40 CFR 63.7700(b)
(A) The Permittee shall use EPA Method 9095A "Paint Filter Liquids Test" (Revision 1, December 1996), as published in EPA Publication SW–846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" for evaluating the presence of free organic liquids as provided in the Metallic Scrap Management plan under Proviso 2.2(c)(2).	40 CFR 63.14(r)(2)(iii)
(I) For the purposes of this test, "free organic liquids" means material that passes through and drops from the filter within the 5-minute test period.	
(B) If any portion of the material passes from the filter, then this material is considered to have failed.	
(2) **Frequency —** The Permittee shall conduct performance tests to demonstrate compliance with the emission limitations in Proviso 2.2(b) according to the following schedule:	
(i) *PM & Total MHAP Emissions —*	40 CFR 63.7731(a)
(A) The Permittee shall conduct performance tests no less frequently than once every 5 years; or	
(B) Each time the Permittee elects to change an operating limit or make a process change that is likely to increase emissions.	
(ii) *Visible & Fugitive Emissions —*	
(A) The Permittee shall conduct performance tests no less frequently than every 6 months; or	40 CFR 63.7731(b)
(B) Each time the Permittee makes a process change likely to increase fugitive emissions; or	
(C) During testing intervals when PM and/or total MHAP performance tests are also conducted so that the opacity observations are recorded simultaneously.	40 CFR 63.7732(d)(2)
(3) **Concurrent Testing & Evaluations —** The Permittee shall perform the following concurrently with the 5-year PM performance testing:	
(i) *CMS Performance Evaluations —*	*Table 1 to Subpart EEEEE* 40 CFR 63.8(e)(4)
(A) A performance evaluation of each CMS in accordance with the applicable sections of 40 CFR 63.8(e).	

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(4) **Combined Stacks —** For EP-017, the Permittee may demonstrate compliance according to the requirements of 40 CFR 63.7732(h) for combined stacks.	40 CFR 63.7732(h)
2.4 EMISSIONS MONITORING	
(a) ***General —*** The Permittee shall adhere to the following monitoring and data collection requirements:	
(1) Monitor continuously (or collect data at all required intervals) any time a source of emissions is operating, except for the following:	40 CFR 63.7742(a)
(i) Monitoring malfunctions, associated repairs, and required QA/QC activities (including calibration checks and required zero/span adjustments).	
(2) Any data recorded during the events described in Proviso 2.4(a)(1)(i) shall not be used for:	40 CFR 63.7742(b)
(i) Any data averaging or calculations used to report emissions or operating levels, or	
(ii) Fulfilling any minimum data availability requirement.	
(3) A *monitoring malfunction* is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data.	40 CFR 63.7742(c)
(i) Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	
(b) ***Periodic Monitoring Requirements —*** The Permittee shall perform the following periodic monitoring requirements no less frequently than the time intervals prescribed below:	
(1) **Daily Inspections —**	
(i) *Visible Emissions —*	Rule 335-3-16-.05(c)
(A) A daily visual check of EP-001 and EP-017 shall be performed by a person familiar with Method 9.	
(B) If estimated instantaneous visible emissions greater than 10% opacity are observed and not corrected within a 1-hour period, then a Method 9 visible emissions observation (VEO) shall be performed within 4 hours of the observation.	
(C) If a VEO is performed, then the Permittee shall document the results in a logbook (written or electronic) using an ADEM VEO form and include the cause(s) of the visual emissions and the corrective action(s) taken.	
(ii) *Differential Pressure —*	
(A) Monitor the pressure drop across each baghouse cell.	40 CFR 63.7740(c)(1)

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(B) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 8.0 in. H_2O.	Rule 335-3-16-.05(c)1.
(iii) *Compressed Air Supply —*	
(A) Check the compressed air supply to each pulse-jet baghouse.	40 CFR 63.7740(c)(3)
(2) **Weekly Inspections —**	
(i) *Baghouse Cleaning Mechanisms —*	
(A) Confirm that dust is being removed from the hoppers via visual inspections or other means to ensure proper functioning of removal mechanisms.	40 CFR 63.7740(c)(2)
(B) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.	40 CFR 63.7740(c)(4) Rule 335-3-16-.05(c)1.
(C) Check baghouse cleaning mechanisms for proper functioning through visual inspections or equivalent means.	40 CFR 63.7740(c)(5) Rule 335-3-16-.05(c)1.
(3) **Monthly Inspections —**	
(i) *Total Capture System Inspections —*	40 CFR 63.7710(b)(1)
(A) Inspect all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches).	
(B) Include observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion).	
(C) The Permittee shall repair any defect or deficiency in the capture system as soon as practicable.	
(4) **Quarterly Inspections —**	
(i) Inspect the interior and exterior of the baghouse structure, access doors, door seals, and filter media.	Rule 335-3-16-.05(c)1.
(ii) Inspect the internal mechanisms of the baghouse hopper.	Rule 335-3-16-.05(c)1.
(iii) Confirm the physical integrity of the baghouse through visual inspections of the baghouse interior for air leaks.	40 CFR 63.7740(c)(7)
(iv) Inspect fans for wear, material buildup, and corrosion through visual inspections, vibration detectors, or equivalent means.	40 CFR 63.7740(c)(8)

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(c) ***Continuous Monitoring Requirements —***	
(1) **Bag Leak Detection System (BLDS) —** The Permittee shall monitor at all times the relative change in PM loadings in each exhaust from EP-001 and EP-017 using a BLDS that meets the following specifications:	40 CFR 63.7740(b)
(i) Be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.	40 CFR 63.7741(b)(1)
(ii) The BLDS sensor must provide output of relative particulate matter loadings which shall be continuously recorded using electronic or other means.	40 CFR 63.7741(b)(2)
(iii) Be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such that it can be heard by the appropriate plant personnel.	40 CFR 63.7741(b)(3)
(iv) The initial adjustment of each system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (if applicable).	40 CFR 63.7741(b)(4)
(v) Following the initial adjustment, the Permittee shall not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time without approval from the Department.	40 CFR 63.7741(b)(5)
(A) However, once per quarter, the Permittee may adjust the sensitivity of the BLDS to account for seasonable effects, including temperature and humidity, according to the procedures in the operation and maintenance plan required by Proviso 2.2(d)(3)(i).	
(vi) All BLDS sensors shall be installed downstream of the baghouse.	40 CFR 63.7741(b)(6)
(vii) If multiple BLDS detectors are required, the BLDS instrumentation and alarm may be shared among these detectors.	40 CFR 63.7741(b)(7)

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2.5 Recordkeeping & Reporting Requirements	
(a) ***Retention of Records —***	
(1) **General —**	40 CFR 63.7753(b) 40 CFR 63.10(b)(1) Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the EPA via the CEDRI or to the Department may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request as part of an on-site compliance evaluation.	40 CFR 63.7752(e)
(b) ***Recordkeeping Requirements —*** The Permittee shall record, document, and maintain all information needed to demonstrate continuous compliance with this Permit (*e.g.*, dates, times, names of personnel performing task(s), etc.).	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)2.
(1) **General —**	
(i) A copy of each notification and report submitted to comply with Subpart EEEEE, including all documentation supporting any initial notification or notification of compliance status submitted as required by 40 CFR 63.10(b)(2)(xiv).	40 CFR 63.7752(a)(1)
(ii) Records of all required maintenance performed on the air pollution control and monitoring equipment.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii)
(iii) Records of all performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii).	40 CFR 63.7752(a)(3)
(2) **Baghouse Inspections & Checks —**	
(i) All daily baghouse checks required by Proviso 2.4(b)(1).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(ii) All weekly baghouse inspections required by Proviso 2.4(b)(2).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(iii) All monthly baghouse inspections required by Proviso 2.4(b)(3).	40 CFR 63.7743(c)(1)

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(iv) All quarterly baghouse inspections required by Proviso 2.4(b)(4).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(v) All visual emissions observations performed using Method 9 of Appendix A-4 to 40 CFR Part 60.	Rule 335-3-16-.05(c)2.
(vi) All the calibrations of each differential pressure gauge.	Rule 335-3-16-.05(c)2.
(vii) All problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2.
(3) **Operation & Maintenance Plan Records —**	
(i) A current copy of the OMP as required by Proviso 2.2(d), including all information needed to demonstrate conformance with the OMP requirements.	40 CFR 63.7745(b)
(A) This copy shall remain onsite and readily available for expeditious review and inspection upon request.	
(B) This copy shall be maintained for the life of this facility, or until the facility is no longer subject to Subpart EEEEE.	
(ii) *Monthly Inspections of Total Capture Systems* — All records documenting each inspection of the total capture systems and initiation of corrective action as required by Proviso 2.2(d)(1).	40 CFR 63.7745(a)(1) 40 CFR 63.7710(b)(1)
(iii) *Preventative Maintenance Plan* — All records documenting the execution of the preventative maintenance plan as required by Proviso 2.2(d)(2).	40 CFR 63.7745(a)(2) 40 CFR 63.7710(b)(3)
(iv) *Site-Specific Monitoring Plan* — For each SSMP required by Proviso 2.2(d)(3):	
(A) All records documenting the execution of the SSMP for each BLDS.	40 CFR 63.7745(a)(3)
(B) All records documenting the proper operation and maintenance of each BLDS as required by Proviso 2.2(d)(3)(i).	40 CFR 63.7745(a)(3) 40 CFR 63.7710(b)(4)
(v) *Corrective Action Plan* — For the corrective action plan required by Proviso 2.2(d)(4):	
(A) Records of the times each BLDS alarm sounded.	40 CFR 63.7743(c)(2)
(B) All records documenting the initiation and completion of corrective action(s) for each valid BLDS alarm, including the following information:	40 CFR 63.7745(a)(4) 40 CFR 63.7710(b)(5)
(I) The date and time when corrective action was initiated;	40 CFR 63.7743(c)(2)
(II) The corrective action taken; and	
(III) The date on which corrective action was completed.	

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(4) **Metallic Scrap Management Plan —** The Permittee shall maintain records to document compliance with the metallic scrap management plan as required by Proviso 2.2(c)(2).	40 CFR 63.7744(a)
(i) *Scrap Certification —* For demonstrating continuous compliance with the scrap certification requirements required by Proviso 2.2(c)(2)(ii), the Permittee shall maintain a copy of this scrap certification readily available to all facility personnel whose duties include materials acquisition or materials inspection.	
(ii) *Scrap Selection & Inspection Plan —* For demonstrating continuous compliance with the scrap selection and inspection plan required by Proviso 2.2(c)(2)(iii), the Permittee shall maintain copy of all procedures used by each scrap supplier for either removing accessible mercury switches or for purchasing automobile scrap bodies that have had mercury switches removed, as applicable.	
(5) **Deviations —**	
(i) Any instance where the Permittee failed to comply with any requirement of this Permit, including during periods of startup, shutdown, or malfunction.	40 CFR 63.7746(a)
(ii) All records documenting each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement Subpart EEEEE:	40 CFR 63.7752(d)
(A) Date, start time, and duration of each failure;	40 CFR 63.7752(d)(1)
(B) List of the affected sources or equipment for each failure;	40 CFR 63.7752(d)(2)
(C) An estimate of the quantity of each regulated pollutant emitted during each deviation and a description of the method used to estimate the emissions;	40 CFR 63.7752(d)(2)
(D) Actions taken to minimize emissions as required by Proviso 2.2(a); and	40 CFR 63.7752(d)(3) 40 CFR 63.7710(a)
(E) Any corrective actions taken to return the affected unit to its normal or usual manner of operation.	40 CFR 63.7752(d)(3)
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee shall submit a SCR according to the following requirements:	40 CFR 63.7751
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.7751(a)(3)

Federally Enforceable Provisos	Regulations
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.7751(a)(4)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.7751(a)(5)
(ii) *Contents* — Each SCR shall contain the following information and/or statements:	40 CFR 63.7751(b)
(A) Company name and address.	40 CFR 63.7751(b)(1)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.7751(b)(2)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.7751(b)(3)
(D) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.7751(b)(5)
(I) "There were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period."	
(E) For reporting periods during which times there were no periods where a continuous monitoring system (CMS) was inoperable or out-of-control, a statement that:	40 CFR 63.7751(b)(6)
(I) "There were no periods during which any CMS was inoperable or out-of-control during the reporting period."	
(F) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, work practice standard, or operation and maintenance requirement) that occurs during the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7752(b)(7)(i) through (iii).	40 CFR 63.7751(b)(7)
(G) For each CMS required under this Permit or Subpart EEEEE that was inoperable or out-of-control during any portion of the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7751(b)(8)(i) through (vi).	40 CFR 63.7751(b)(8)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.7751(e), (h), & (i)

Federally Enforceable Provisos	Regulations
(2) **Notification of Performance Testing —** The Permittee shall submit to the Department a notification of the intent to conduct a performance test no fewer than 60 days prior to the scheduled performance test.	40 CFR 63.7750(d) 40 CFR 63.7(b)(1)
(i) In the event the Permittee is unable to conduct the performance test on the date specified in this notification due to unforeseeable circumstances, the Permittee shall notify the Department as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled.	40 CFR 63.7(b)(2)
(ii) Semiannual testing for opacity is exempt from this notification requirement.	Rule 335-3-16-.07(f)
(3) **Performance Test Reports —** Within 60 days after the date of completing any performance test, the Permittee shall submit the results of each performance test according to the following:	40 CFR 63.7751(f)
(i) The Permittee shall certify that the capture system operated normally during the performance test.	
(ii) Each performance test report shall be submitted to the Department.	
(iii) Each performance test report shall be submitted to the EPA following the procedures specified in 40 CFR 63.7751(f)(1) through (3).	
(4) **Performance Evaluation Reports —** Within 60 days after the date of completing any performance evaluation of any continuous monitoring system, the Permittee shall submit the results of each performance evaluation according to the requirements of 40 CFR 63.7751(g)(1) through (3).	40 CFR 63.7751(g)

Section 3 – Lost Foam Pouring & Cooling Operations (EP-090)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

Emission Limitations				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-090	Pouring & Cooling Operations	PM	0.010 gr/dscf	40 CFR 63.7690(a)(5)(i)
		– or – MHAP	0.0008 gr/dscf	40 CFR 63.7690(a)(5)(ii)
		PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
Fugitives	Foundry Buildings	Opacity	20%/27%	40 CFR 63.7690(a)(7)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

Provisos for Lost Foam Pouring & Cooling Operations (EP-090)

Federally Enforceable Provisos	Regulations
3.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.02 — *Control of Particulate Emissions: Fugitive Dust and Fugitive Emissions*;	Rule 335-3-4-.02
(4) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(5) 40 CFR Part 63, Subpart EEEEE — *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries* (Subpart EEEEE); and	Rule 335-3-11-.06(108) 40 CFR 63.7681
(6) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in *Table 1 to Subpart EEEEE*.	Rule 335-3-11-.06(1) 40 CFR 63.7760
(b) ***40 CFR Part 64: Compliance Assurance Monitoring —***	
(1) The emission limitations under Subpart EEEEE were promulgated by the EPA after November 15, 1990, pursuant to section 112 of the *Clean Air Act, as amended* (the Act), which meet or exceed the standards under 40 CFR Part 64, *Compliance Assurance Monitoring* (CAM), and Subpart EEEEE provides specific emissions limitations and monitoring requirements for pouring and cooling operations. Therefore, the unit(s) and control devices associated with EP-090 are exempt from the provisions of 40 CFR Part 64 by complying with monitoring requirements of Subpart EEEEE.	40 CFR 64.2(b)(1)(i)
3.2 EMISSION STANDARDS	
(a) ***General —***	
(1) The Permittee shall always operate and maintain these units, including any associated control devices and monitoring equipment, in a manner consistent good air pollution control practices for minimizing emissions.	40 CFR 63.7710(a)
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emissions limitations:	40 CFR 63.7690
(1) **All Sources —**	
(i) *Visible Emissions —*	
(A) All visible emissions, as determined by rolling six-minute average (SMA), shall not exceed the opacity limitations as specified under Proviso 1.29.	Rule 335-3-4-.01(1)

Federally Enforceable Provisos	Regulations
(ii) *Particulate Matter* (PM) —	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31.	Rule 335-3-4-.04
(2) **Structures and Buildings Housing Foundry Emissions Sources —**	
(i) *Visible Emissions & Fugitive Emissions —*	
(A) The Permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (SMA), except for one SMA per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7)
(3) **EP-090 —**	
(i) *Particulate Emissions —*	
(A) 0.010 gr/dscf PM, or	40 CFR 63.7690(a)(5)(i)
(B) 0.0008 gr/dscf MHAP	40 CFR 63.7690(a)(5)(ii)
(c) ***Operational Limitations —*** The Permittee shall comply with the following requirements:	
(1) **General —**	
(i) Always operate and maintain the iron and steel foundry, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by Subpart EEEEE.	40 CFR 63.7710(a)
(ii) Prepare and always operate according to the prescribed operations & maintenance plan (OMP) specified under Proviso 3.2(d).	40 CFR 63.7710(b)
(d) ***Operation & Maintenance Plan (OMP) —*** The Permittee shall prepare and operate at all times according to a written OMP for the capture and collection systems and control devices for EP-090, which shall contain the following elements:	40 CFR 63.7710(b)
(1) **Monthly Inspections of Total Capture System —**	40 CFR 63.7710(b)(1)
(i) Inspections of all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches);	
(ii) Observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion); and	
(iii) Requirements to repair any defect or deficiency in the capture system as soon as practicable.	

Federally Enforceable Provisos	Regulations
(2) **Preventative Maintenance Plan —**	40 CFR 63.7710(b)(3)
(i) For the control device(s) associated with EP-090, a preventative maintenance plan including a preventative maintenance schedule consistent with the manufacturer's instruction for routine & long-term maintenance.	
(3) **Site-Specific Monitoring Plan (SSMP) —**	
(i) *Bag Leak Detection System (BLDS)* — As provided under Proviso 3.4(c)(1) and required by 40 CFR 63.7740(b), the Permittee shall operate and maintain each BLDS according to the SSMP at all times. The SSMP must address the following:	40 CFR 63.7710(b)(4)
(A) For each BLDS that operates on the triboelectric effect, the SSMP must be consistent with the recommendations contained in the U.S. Environmental Protection Agency guidance document "Fabric Filter Bag Leak Detection Guidance" (EPA–454/R–98–015);	40 CFR 63.7710(b)(4)
(B) Installation of the BLDS;	40 CFR 63.7710(b)(4)(i)
(C) Initial and periodic adjustment of the BLDS, including how the alarm set-point(s) will be established;	40 CFR 63.7710(b)(4)(ii)
(D) Operation of the BLDS, including quality assurance and quality control (QA/QC) procedures;	40 CFR 63.7710(b)(4)(iii)
(E) How the BLDS will be maintained, including a routine maintenance schedule and spare parts inventory; and	40 CFR 63.7710(b)(4)(iv)
(F) How the BLDS output will be recorded and stored.	40 CFR 63.7710(b)(4)(v)
(ii) *Quality Control Program* — The Permittee shall develop and implement a quality control program for each continuous monitoring system (CMS).	40 CFR 63.8(d)(2)
(A) This quality control program shall include, at a minimum, a written protocol that described procedures for each of the following operations:	40 CFR 63.8(d)(2)
(I) Initial and any subsequent calibration of the CMS;	40 CFR 63.8(d)(2)(i)
(II) Determination and adjustment of the calibration drift of the CMS;	40 CFR 63.8(d)(2)(ii)
(III) Preventive maintenance of the CMS, including spare parts inventory;	40 CFR 63.8(d)(2)(iii)
(IV) Data recording, calculations, and reporting;	40 CFR 63.8(d)(2)(iv)
(V) Accuracy audit procedures, including sampling and analysis methods; and	40 CFR 63.8(d)(2)(v)
(VI) Program of corrective action for a malfunctioning CMS.	40 CFR 63.8(d)(2)(vi)

Federally Enforceable Provisos	Regulations
(4) **Corrective Action Plan —**	40 CFR 63.7710(b)(5)
(i) For each BLDS alarm triggered, the Permittee shall initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable.	40 CFR 63.7710(b)(5)
(ii) Corrective actions may include, but are not limited to, the following:	40 CFR 63.7710(b)(5)
(A) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions;	40 CFR 63.7710(b)(5)(i)
(B) Sealing off and/or replacing defective bags or filter media;	40 CFR 63.7710(b)(5)(ii) & (iii)
(C) Sealing off defective baghouse compartment(s);	40 CFR 63.7710(b)(5)(iv)
(D) Cleaning the BLDS probe;	40 CFR 63.7710(b)(5)(v)
(E) Making process changes;	40 CFR 63.7710(b)(5)(vi)
(F) Shutting down the process and/or units producing the PM emissions; and/or	40 CFR 63.7710(b)(5)(vii)
(G) Conducting other repairs to the capture devices, control devices, or BLDS.	40 CFR 63.7710(b)(5)(iii) & (v) Rule 335-3-16-.05(a)
3.3 Compliance & Performance Test Methods & Procedures	
(a) ***General —***	
(1) The Permittee must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in accordance with Subpart EEEEE at all times, including during periods of startup, shutdown, and malfunctions.	40 CFR 63.7720(a)
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** To demonstrate compliance with the emissions limitations in Proviso 3.2(b), the Permittee shall conduct each performance test according to the following:	
(i) *Particulate Matter Emissions —*	
(A) All applicable procedures and requirements of 40 CFR 63.7732(b).	40 CFR 63.7732(b)
(B) Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	40 CFR 63.7732(b)(1)(v) Rule 335-3-16-.05(c)1.

Federally Enforceable Provisos	Regulations
(ii) *Total MHAP Emissions* —	
(A) All applicable procedures and requirements of 40 CFR 63.7732(c).	40 CFR 63.7732(c)
(B) Method 29 of Appendix A-8 to 40 CFR Part 60 shall be used in determining the concentration of MHAP emissions.	40 CFR 63.7732(c)(1)(v)
(iii) *Visible & Fugitive Emissions* —	
(A) All applicable requirements in 40 CFR 63.6(h)(5) and 63.7732(d).	40 CFR 63.7732(d)
(B) Using a certified observer, the Permittee may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure;	40 CFR 63.7732(d)(1)
— OR —	
(C) Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points may afford such an observation.	
(D) The minimum total time of opacity observations shall be 3 hours (*i.e.*, 30 6-minute averages).	40 CFR 63.6(h)(5)(ii)
(E) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	40 CFR 63.7732(d)(1)
(2) **Frequency —** The Permittee shall conduct performance tests to demonstrate compliance with the emission limitations in Proviso 3.2(b)(3) according to the following schedule:	
(i) *PM & Total MHAP Emissions* —	40 CFR 63.7731(a)
(A) The Permittee shall conduct performance tests no less frequently than once every 5 years; or	
(B) Each time the Permittee elects to change an operating limit or make a process change that is likely to increase emissions.	
(ii) *Visible & Fugitive Emissions* —	40 CFR 63.7731(b)
(A) The Permittee shall conduct performance tests no less frequently than every 6 months; or	
(B) Each time the Permittee makes a process change likely to increase fugitive emissions; or	
(C) During testing intervals when PM and/or total MHAP performance tests are also conducted so that the opacity observations are recorded simultaneously.	40 CFR 63.7732(d)(2)

Federally Enforceable Provisos	Regulations
(3) **Concurrent Testing & Evaluations —** The Permittee shall perform the following concurrently with the 5-year PM performance testing:	
(i) *CMS Performance Evaluations —*	*Table 1 to Subpart EEEEE* 40 CFR 63.8(e)(4)
(A) A performance evaluation of each CMS in accordance with the applicable sections of 40 CFR 63.8(e).	
3.4 EMISSIONS MONITORING	
(a) ***General —*** The Permittee shall adhere to the following monitoring and data collection requirements:	
(1) Monitor continuously (or collect data at all required intervals) any time a source of emissions is operating, except for the following:	40 CFR 63.7742(a)
(i) Monitoring malfunctions, associated repairs, and required QA/QC activities (including calibration checks and required zero/span adjustments).	
(2) Any data recorded during the events described in Proviso 2.4(a)(1)(i) shall not be used for:	40 CFR 63.7742(b)
(i) Any data averaging or calculations used to report emissions or operating levels, or	
(ii) Fulfilling any minimum data availability requirement.	
(3) A *monitoring malfunction* is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data.	40 CFR 63.7742(c)
(i) Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	
(b) ***Periodic Monitoring Requirements —*** The Permittee shall perform the following periodic monitoring requirements no less frequently than the time intervals prescribed below:	
(1) **Daily Inspections —**	
(i) *Visible Emissions —*	Rule 335-3-16-.05(c)
(A) A daily visual check of EP-090 shall be performed by a person familiar with Method 9.	
(B) If estimated instantaneous visible emissions greater than 10% opacity are observed and not corrected within a 1-hour period, then a Method 9 visible emissions observation (VEO) shall be performed within 4 hours of the observation.	
(C) If a VEO is performed, then the Permittee shall document the results in a logbook (written or electronic) using an ADEM VEO form and include the cause(s) of the visual emissions and the corrective action(s) taken.	

Federally Enforceable Provisos	Regulations
(ii) *Differential Pressure —*	
(A) Monitor the pressure drop across each baghouse cell.	40 CFR 63.7740(c)(1)
(B) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 10.0 in. H_2O.	Rule 335-3-16-.05(c)1.
(iii) *Compressed Air Supply —*	40 CFR 63.7740(c)(3)
(A) Check the compressed air supply to each pulse-jet baghouse.	
(2) **Weekly Inspections —**	
(i) *Baghouse Cleaning Mechanisms —*	
(A) Confirm that dust is being removed from the hoppers via visual inspections or other means to ensure proper functioning of removal mechanisms.	40 CFR 63.7740(c)(2)
(B) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.	40 CFR 63.7740(c)(4) Rule 335-3-16-.05(c)1.
(C) Check baghouse cleaning mechanisms for proper functioning through visual inspections or equivalent means.	40 CFR 63.7740(c)(5) Rule 335-3-16-.05(c)1.
(3) **Monthly Inspections —**	
(i) *Total Capture System Inspections —*	40 CFR 63.7710(b)(1)
(A) Inspect all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches).	
(B) Include observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion).	
(C) The Permittee shall repair any defect or deficiency in the capture system as soon as practicable.	
(4) **Quarterly Inspections —**	
(i) Inspect the interior and exterior of the baghouse structure, access doors, door seals, and filter media.	Rule 335-3-16-.05(c)1.
(ii) Inspect the internal mechanisms of the baghouse hopper.	Rule 335-3-16-.05(c)1.
(iii) Confirm the physical integrity of the baghouse through visual inspections of the baghouse interior for air leaks.	40 CFR 63.7740(c)(7)
(iv) Inspect fans for wear, material buildup, and corrosion through visual inspections, vibration detectors, or equivalent means.	40 CFR 63.7740(c)(8)

Federally Enforceable Provisos	Regulations
(c) ***Continuous Monitoring Requirements —***	
(1) **Bag Leak Detection System (BLDS) —** The Permittee shall monitor at all times the relative change in PM loadings in each exhaust from EP-090 using a BLDS that meets the following specifications:	40 CFR 63.7740(b)
(i) Be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.	40 CFR 63.7741(b)(1)
(ii) The BLDS sensor must provide output of relative particulate matter loadings, which shall be continuously recorded using electronic or other means.	40 CFR 63.7741(b)(2)
(iii) Be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such that it can be heard by the appropriate plant personnel.	40 CFR 63.7741(b)(3)
(iv) The initial adjustment of each system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (if applicable).	40 CFR 63.7741(b)(4)
(v) Following the initial adjustment, the Permittee shall not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time without approval from the Department.	40 CFR 63.7741(b)(5)
(A) However, once per quarter, the Permittee may adjust the sensitivity of the BLDS to account for seasonable effects, including temperature and humidity, according to the procedures in the operation and maintenance plan required by Proviso 3.2(d)(3)(i)(C).	
(vi) All BLDS sensors shall be installed downstream of the baghouse.	40 CFR 63.7741(b)(6)
(vii) If multiple BLDS detectors are required, the BLDS instrumentation and alarm may be shared among these detectors.	40 CFR 63.7741(b)(7)

Federally Enforceable Provisos	Regulations
3.5 RECORDKEEPING & REPORTING REQUIREMENTS	
(a) ***Retention of Records —***	
(1) **General —**	40 CFR 63.7753(b) 40 CFR 63.10(b)(1) Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the EPA via the CEDRI or to the Department may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request as part of an on-site compliance evaluation.	40 CFR 63.7752(e)
(b) ***Recordkeeping Requirements —*** The Permittee shall record, document, and maintain all information needed to demonstrate continuous compliance with this Permit (*e.g.*, dates, times, names of personnel performing task(s), etc.).	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)2.
(1) **General —**	
(i) A copy of each notification and report submitted to comply with Subpart EEEEE, including all documentation supporting any initial notification or notification of compliance status submitted as required by 40 CFR 63.10(b)(2)(xiv).	40 CFR 63.7752(a)(1)
(ii) Records of all required maintenance performed on the air pollution control and monitoring equipment.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii)
(iii) Records of all performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii).	40 CFR 63.7752(a)(3)

Federally Enforceable Provisos	Regulations
(2) **Baghouse Inspections & Checks —**	
(i) All daily baghouse checks required by Proviso 3.4(b)(1).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(ii) All weekly baghouse inspections required by Proviso 3.4(b)(2).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(iii) All monthly baghouse inspections required by Proviso 3.4(b)(3).	40 CFR 63.7743(c)(1)
(iv) All quarterly baghouse inspections required by Proviso 3.4(b)(4).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(v) All visual emissions observations performed using Method 9 of Appendix A-4 to 40 CFR Part 60.	Rule 335-3-16-.05(c)2.
(vi) All the calibrations of each differential pressure gauge.	Rule 335-3-16-.05(c)2.
(vii) All problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2.
(3) **Operation & Maintenance Plan Records —**	
(i) A current copy of the OMP as required by Proviso 3.2(d), including all information needed to demonstrate conformance with the OMP requirements.	40 CFR 63.7745(b)
(A) This copy shall remain onsite and readily available for expeditious review and inspection upon request.	
(B) This copy shall be maintained for the life of this facility, or until the facility is no longer subject to Subpart EEEEE.	
(ii) *Monthly Inspections of Total Capture Systems* — All records documenting each inspection of the total capture systems and initiation of corrective action as required by Proviso 3.2(d)(1).	40 CFR 63.7745(a)(1) 40 CFR 63.7710(b)(1)
(iii) *Preventative Maintenance Plan* — All records documenting the execution of the preventative maintenance plan as required by Proviso 3.2(d)(2).	40 CFR 63.7745(a)(2) 40 CFR 63.7710(b)(3)
(A) All records documenting the execution of the SSMP for each BLDS.	40 CFR 63.7745(a)(3)
(B) All records documenting the proper operation and maintenance of each BLDS as required by Proviso 3.2(d)(3)(i).	40 CFR 63.7745(a)(3) 40 CFR 63.7710(b)(4)

Federally Enforceable Provisos	Regulations
(iv) *Corrective Action Plan* — For the corrective action plan required by Proviso 3.2(d)(4):	
(A) Records of the times each BLDS alarm sounded.	40 CFR 63.7743(c)(2)
(B) All records documenting the initiation and completion of corrective action(s) for each valid BLDS alarm, including the following information:	40 CFR 63.7745(a)(4) 40 CFR 63.7710(b)(5)
(I) The date and time when corrective action was initiated;	40 CFR 63.7743(c)(2)
(II) The corrective action taken; and	
(III) The date on which corrective action was completed.	
(4) **Deviations —**	
(i) Any instance where the Permittee failed to comply with any requirement of this Permit, including during periods of startup, shutdown, or malfunction.	40 CFR 63.7746(a)
(ii) All records documenting each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement of Subpart EEEEE:	40 CFR 63.7752(d)
(A) Date, start time, and duration of each failure;	40 CFR 63.7752(d)(1)
(B) List of the affected sources or equipment for each failure;	40 CFR 63.7752(d)(2)
(C) An estimate of the quantity of each regulated pollutant emitted during each deviation and a description of the method used to estimate the emissions;	40 CFR 63.7752(d)(2)
(D) Actions taken to minimize emissions as required by Proviso 3.2(a); and	40 CFR 63.7752(d)(3) 40 CFR 63.7710(a)
(E) Any corrective actions taken to return the affected unit to its normal or usual manner of operation.	40 CFR 63.7752(d)(3)

Federally Enforceable Provisos	Regulations
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee shall submit a SCR according to the following requirements:	40 CFR 63.7751
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.7751(a)(3)
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.7751(a)(4)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.7751(a)(5)
(ii) *Contents —* Each SCR shall contain the following information and/or statements:	40 CFR 63.7751(b)
(A) Company name and address.	40 CFR 63.7751(b)(1)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.7751(b)(2)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.7751(b)(3)
(D) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.7751(b)(5)
(I) "There were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period."	
(E) For reporting periods during which times there were no periods where a continuous monitoring system (CMS) was inoperable or out-of-control, a statement that:	40 CFR 63.7751(b)(6)
(I) "There were no periods during which any CMS was inoperable or out-of-control during the reporting period."	
(F) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, work practice standard, or operation and maintenance requirement) that occurs during the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7752(b)(7)(i) through (iii).	40 CFR 63.7751(b)(7)

Federally Enforceable Provisos	Regulations
(G) For each CMS required under this Permit or Subpart EEEEE that was inoperable or out-of-control during any portion of the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7751(b)(8)(i) through (vi).	40 CFR 63.7751(b)(8)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.7751(e), (h), & (i)
(2) **Notification of Performance Testing —** The Permittee shall submit to the Department a notification of the intent to conduct a performance test no fewer than 60 days prior to the scheduled performance test.	40 CFR 63.7750(d) 40 CFR 63.7(b)(1)
(i) In the event the Permittee is unable to conduct the performance test on the date specified in this notification due to unforeseeable circumstances, the Permittee shall notify the Department as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled.	40 CFR 63.7(b)(2)
(ii) Semiannual testing for opacity is exempt from this notification requirement.	Rule 335-3-16-.07(f)
(3) **Performance Test Reports —** Within 60 days after the date of completing any performance test, the Permittee shall submit the results of each performance test according to the following:	40 CFR 63.7751(f)
(i) The Permittee shall certify that the capture system operated normally during the performance test.	
(ii) Each performance test report shall be submitted to the Department.	
(iii) Each performance test report shall be submitted to the EPA following the procedures specified in 40 CFR 63.7751(f)(1) through (3).	
(4) **Performance Evaluation Reports —** Within 60 days after the date of completing any performance evaluation of any continuous monitoring system, the Permittee shall submit the results of each performance evaluation according to the requirements of 40 CFR 63.7751(g)(1) through (3).	40 CFR 63.7751(g)

Section 4 – Upper- & Lower-Barrel Sand Handling & Recycling Systems (EP-009 & 015)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

EMISSION LIMITATIONS				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-009	Upper Barrel Sand Dump & Sand Recycling System	PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
			6.1 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
EP-015	Lower Barrel Sand Dump	PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
			2.8 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
Fugitives	All foundry buildings	Opacity	20%/27%	40 CFR 63.7690(a)(7)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

Provisos for Upper- & Lower-Barrel Sand Handling & Recycling Systems (EP-009 & 015)

Federally Enforceable Provisos	Regulations
4.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16-.03 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.02(3) — *Control of Particulate Emissions: Fugitive Dust and Fugitive Emissions*;	Rule 335-3-4-.02
(4) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(5) 40 CFR Part 63, Subpart EEEEE — *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries* (Subpart EEEEE); and	Rule 335-3-11-.06(108) 40 CFR 63.7681
(6) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in *Table 1 to Subpart EEEEE*.	Rule 335-3-11-.06(1) 40 CFR 63.7760
(7) 40 CFR Part 64 — *Compliance Assurance Monitoring* (CAM), as specified in Proviso 1.33 and the CAM plan in Section 201.	40 CFR 64.2(a)
(b) These sources have an enforceable limit to prevent them from being subject to the applicable provisions of the following:	Rule 335-3-14-.04 (Anti-PSD)
(1) ADEM Admin. Code r. 335-3-14-.04 — *Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration [PSD])*.	
4.2 EMISSION STANDARDS	
(a) ***General —***	
(1) The Permittee shall always operate and maintain these units, including any associated control devices and monitoring equipment, in a manner consistent good air pollution control practices for minimizing emissions.	40 CFR 63.7710(a)

Federally Enforceable Provisos	Regulations
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emissions limitations:	40 CFR 63.7690
(1) **All Sources —**	
(i) *Visible Emissions —*	
(A) All visible emissions, as determined by rolling six-minute average (SMA), shall not exceed the opacity limitations as specified under Proviso 1.29.	Rule 335-3-4-.01(1)
(ii) *Particulate Matter* (PM) —	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31 above.	Rule 335-3-4-.04
(2) **Structures and Buildings Housing Foundry Emissions Sources —**	
(i) *Visible Emissions & Fugitive Emissions —*	
(A) The Permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (SMA), except for one SMA per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7)
(3) **EP-009 —**	
(i) *Particulate Emissions —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 6.1 lb/hr	
(4) **EP-015 —**	
(i) *Particulate Emissions —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 2.8 lb/hr	
4.3 COMPLIANCE & PERFORMANCE TEST METHODS & PROCEDURES	
(a) ***General —***	
(1) The Permittee shall comply with the emissions limitations, work practice standards, and operation and maintenance requirements in accordance with Subpart EEEEE at all times, including during periods of startup, shutdown, and malfunctions.	40 CFR 63.7720(a)

Federally Enforceable Provisos	Regulations
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** To demonstrate compliance with the emissions limitations in Proviso 4.2(b) above, the Permittee shall conduct each performance test according to the following:	
(i) *Visible & Fugitive Emissions —*	
(A) All applicable requirements in 40 CFR 63.6(h)(5) and 63.7732(d).	40 CFR 63.7732(d)
(B) Using a certified observer, the Permittee may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure;	40 CFR 63.7732(d)(1)
— OR —	
(C) Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points may afford such an observation.	
(D) The minimum total time of opacity observations shall be 3 hours (30 6-minute averages).	40 CFR 63.6(h)(5)(ii)
(E) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	40 CFR 63.7732(d)(1)
(ii) *Particulate Matter —*	
(A) If testing is required, Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	Rule 335-3-16-.05(c)1.
(2) **Frequency —** The Permittee shall conduct subsequent performance tests to demonstrate compliance with the respective emission limits according to the following schedule:	
(i) *Visible & Fugitive Emissions —*	
(A) The Permittee shall conduct performance tests no less frequently than every 6 months; or	40 CFR 63.7731(b)
(B) Each time the Permittee makes a process change likely to increase fugitive emissions; or	
(C) During testing intervals when PM and/or total MHAP performance tests are also conducted so that the opacity observations are recorded simultaneously.	40 CFR 63.7732(d)(2)

Federally Enforceable Provisos	Regulations
4.4 EMISSIONS MONITORING	
(a) ***General —***	
(1) The Permittee shall conduct and record all periodic maintenance, routine maintenance, and repairs on the emissions units, monitoring equipment, and control devices, as needed.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)1.
(b) ***Periodic Monitoring Requirements —*** The Permittee shall perform the following periodic monitoring requirements no less frequently than the time intervals prescribed below:	
(1) **Daily Inspections —**	Rule 335-3-16-.05(c)1.
(i) *Visible Emissions —*	
(A) A daily visual check of EP-009 and EP-015 shall be performed by a person familiar with Method 9.	
(B) If estimated instantaneous visible emissions greater than 10% opacity are observed and not corrected within a 1-hour period, then a Method 9 visible emissions observation (VEO) shall be performed within 4 hours of the observation.	
(C) If a VEO is performed, then the Permittee shall document the results in a logbook (written or electronic) using an ADEM VEO form and include the cause(s) of the visual emissions and the corrective action(s) taken.	
(ii) *Differential Pressure —*	
(A) Monitor the pressure drop across each baghouse cell.	
(B) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 8.0 in. H_2O.	
(iii) *Compressed Air Supply —*	
(A) Check the compressed air supply to each pulse-jet baghouse.	
(2) **Weekly Inspections —**	Rule 335-3-16-.05(c)1.
(i) *Baghouse Cleaning Mechanisms —*	
(A) Confirm that dust is being removed from the hoppers via visual inspections or other means to ensure proper functioning of removal mechanisms.	
(B) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.	
(C) Check baghouse cleaning mechanisms for proper functioning through visual inspections or equivalent means.	

Federally Enforceable Provisos	Regulations
(3) **Quarterly Inspections —** (i) Inspect all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches). (ii) Conduct internal and external inspections of the following components of each baghouse: (A) Physical structures, supports, and walls; (B) Internal walls and structures for air leaks or other defects; (C) Access door(s) and seal(s); (D) Filter media; and (E) Hopper and other dust removal mechanisms. (iii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means. (iv) Include observations of the physical appearance of each item (*e.g.*, holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust, and signs of erosion, corrosion or other forms of deterioration). (v) The Permittee shall repair any defect or deficiency in the capture system as soon as practicable.	Rule 335-3-16-.05(c)1.

Federally Enforceable Provisos	Regulations
4.5 Recordkeeping & Reporting Requirements	
(a) ***Retention of Records —***	
(1) **General —**	40 CFR 63.7753 40 CFR 63.10(b)(1) Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the EPA via the CEDRI or to the Department may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request as part of an on-site compliance evaluation.	40 CFR 63.7752(e)
(b) ***Recordkeeping Requirements —*** The Permittee shall record, document, and maintain all information (*e.g.*, dates, times, and names of personnel who performed each inspection) needed to demonstrate continuous compliance with this Permit.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)2.
(1) **General —**	
(i) Records of all performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii).	40 CFR 63.7752(a)(3)
(2) **Baghouse Inspections & Checks —**	Rule 335-3-16-.05(c)2.
(i) All daily checks required under Proviso 4.4(b)(1).	
(ii) All weekly inspections required under Proviso 4.4(b)(2).	
(iii) All quarterly inspections required under Proviso 4.4(b)(3).	
(iv) All VEO performed using Method 9 of Appendix A-4 to 40 CFR Part 60.	
(3) **Maintenance —**	Rule 335-3-16-.05(c)2.
(i) All periodic maintenance, routine maintenance, and repairs on the emissions units, monitoring equipment, and control devices.	

Federally Enforceable Provisos	Regulations
(4) **Deviations —**	Rule 335-3-16-.05(c)2.
(i) Any instance where the Permittee failed to comply with any requirement of this Permit, including during periods of startup, shutdown, or malfunction.	
(ii) All records documenting each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement of this Permit:	
(A) Date, start time, and duration of each failure;	
(B) List of the affected sources or equipment for each failure;	
(C) An estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions;	
(D) Actions taken to minimize emissions in accordance with Proviso 4.2(a) above; and	
(E) Any corrective actions taken to return the affected unit to its normal or usual manner of operation.	
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee must submit a semiannual compliance report according to the following requirements:	40 CFR 63.7751
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.7751(a)(3)
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.7751(a)(4)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.7751(a)(5)

Federally Enforceable Provisos	Regulations
(ii) *Contents* — Each SCR shall contain the following information and/or statements:	40 CFR 63.7751(b)
(A) Company name and address.	40 CFR 63.7751(b)(1)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.7751(b)(2)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.7751(b)(3)
(D) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.7751(b)(5)
(I) "There were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period."	
(E) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, work practice standard, or operation and maintenance requirement) that occurs during the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7752(b)(7).	40 CFR 63.7751(b)(7)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.7751(e), (h), & (i)
(2) **Performance Test Reports —** Within 60 days after the date of completing any performance test, the Permittee shall submit the results of the performance test according to the following:	40 CFR 63.7751(f)
(i) The facility must certify that the capture system operated normally during the performance test;	
(ii) Each performance test report shall be submitted to the Department; and	
(iii) Each performance test report shall be submitted to the EPA following the procedures specified in 40 CFR 63.7751(f)(1) through (3).	

Section 5 – Disa Specialty Foundry (EP-019) and Pneumatic Sand System (EP-003)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

Emission Limitations				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-019	Disamatic Mold System with Baghouse	PM – or – MHAP	0.010 gr/dscf	40 CFR 63.7690(a)(5)(i)
			0.0008 gr/dscf	40 CFR 63.7690(a)(5)(ii)
		PM	$3.59(\boldsymbol{P})^{0.62}$	Rule 335-3-4-.04
			25.0 lb/hr 7,488 hr/yr	Rule 335-3-14-.04 (Anti-PSD)
EP-003	Pneumatic Sand System	PM	1.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
Fugitives	All foundry buildings	Opacity	20%/27%	40 CFR 63.7690(a)(7)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

Provisos for Disa Specialty Foundry (EP-019) and Pneumatic Sand System (EP-003)

Federally Enforceable Provisos	Regulations
5.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.02 — *Control of Particulate Emissions: Fugitive Dust and Fugitive Emissions*;	Rule 335-3-4-.02
(4) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(5) 40 CFR Part 63, Subpart EEEEE — *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries* (Subpart EEEEE); and	Rule 335-3-11-.06(108) 40 CFR 63.7681
(6) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in *Table 1 to Subpart EEEEE*.	Rule 335-3-11-.06(1) 40 CFR 63.7760
(b) These sources have an enforceable limit to prevent them from being subject to the applicable provisions of the following:	Rule 335-3-14-.04 (Anti-PSD)
(1) ADEM Admin. Code r. 335-3-14-.04 — *Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration [PSD])*.	
(c) ***40 CFR Part 64: Compliance Assurance Monitoring (CAM) —***	
(1) **EP-019 —**	40 CFR 64.2(b)(1)(i)
(i) The emission limitations under Subpart EEEEE were promulgated by the EPA after November 15, 1990, pursuant to section 112 of the *Clean Air Act, as amended* (the Act), which meet or exceed the standards under 40 CFR Part 64, *Compliance Assurance Monitoring* (CAM), and Subpart EEEEE provides specific emissions limitations and monitoring requirements for pouring and cooling operations. Therefore, the unit(s) and control devices associated with EP-019 are exempt from the provisions of 40 CFR Part 64 by complying with monitoring requirements of Subpart EEEEE.	40 CFR 64.2(b)(1)(i)

Federally Enforceable Provisos	Regulations
5.2 EMISSION STANDARDS	
(a) ***General —***	
(1) The Permittee shall always operate and maintain these units, including any associated control devices and monitoring equipment, in a manner consistent good air pollution control practices for minimizing emissions.	40 CFR 63.7710(a)
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emissions limitations:	40 CFR 63.7690
(1) **All Sources —**	
(i) *Visible Emissions —*	
(A) All visible emissions, as determined by rolling six-minute average (SMA), shall not exceed the opacity limitations as specified under Proviso 1.29.	Rule 335-3-4-.01(1)
(ii) *Particulate Matter* (PM) —	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31.	Rule 335-3-4-.04
(2) **Structures and Buildings Housing Foundry Emissions Sources —**	
(i) *Visible Emissions & Fugitive Emissions —*	
(A) The Permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (SMA), except for one SMA per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7)
(3) **EP-019 —**	
(i) *Particulate Matter —* Limit to the lesser of:	
(A) 0.010 gr/dscf, and	40 CFR 63.7690(a)(5)(i)
(B) 25.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
(C) As an alternative to the PM emission standard in Proviso 5.2(b)(3)(i)(A), the Permittee may limit total metal HAP (MHAP) emissions to 0.0008 gr/dscf.	40 CFR 63.7690(a)(5)(ii)
(4) **EP-003 —**	
(i) Particulate Matter —	Rule 335-3-14-.04 (Anti-PSD)
(A) 1.0 lb/hr	

Federally Enforceable Provisos	Regulations
(c) ***Operational Limitations —*** The Permittee shall comply with the following requirements:	
(1) **General —**	
(i) Always operate and maintain the iron and steel foundry, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by Subpart EEEEE.	40 CFR 63.7710(a)
(ii) Prepare and always operate according to the prescribed operations & maintenance plan (OMP) specified under Proviso 5.2(d).	40 CFR 63.7710(b)
(2) **EP-019 —**	
(i) The Disamatic Mold System shall operate no more than 7,488 hours during any consecutive rolling 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
(d) ***Operation & Maintenance Plan (OMP) —*** The Permittee shall prepare and operate at all times according to a written OMP for the capture and collection systems and control devices for EP-019, which shall contain the following elements:	40 CFR 63.7710(b)
(1) **Monthly Inspections of Total Capture System —**	40 CFR 63.7710(b)(1)
(i) Inspections of all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches);	
(ii) Observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion); and	
(iii) Requirements to repair any defect or deficiency in the capture system as soon as practicable.	
(2) **Preventative Maintenance Plan —**	40 CFR 63.7710(b)(3)
(i) For the control device(s) associated with EP-019, a preventative maintenance schedule consistent with the manufacturer's instruction for routine & long-term maintenance.	

Federally Enforceable Provisos	Regulations
(3) **Site-Specific Monitoring Plan (SSMP) —**	
(i) *Bag Leak Detection System (BLDS)* — As provided under Proviso 5.4(c)(1) and required by 40 CFR 63.7740(b), the Permittee shall operate and maintain each BLDS according to the SSMP at all times. The SSMP must address the following:	40 CFR 63.7710(b)(4)
(A) For each BLDS that operates on the triboelectric effect, the SSMP must be consistent with the recommendations contained in the U.S. Environmental Protection Agency guidance document "Fabric Filter Bag Leak Detection Guidance" (EPA–454/R–98–015);	40 CFR 63.7710(b)(4)
(B) Installation of the BLDS;	40 CFR 63.7710(b)(4)(i)
(C) Initial and periodic adjustment of the BLDS, including how the alarm set-point(s) will be established;	40 CFR 63.7710(b)(4)(ii)
(D) Operation of the BLDS, including quality assurance and quality control (QA/QC) procedures;	40 CFR 63.7710(b)(4)(iii)
(E) How the BLDS will be maintained, including a routine maintenance schedule and spare parts inventory; and	40 CFR 63.7710(b)(4)(iv)
(F) How the BLDS output will be recorded and stored.	40 CFR 63.7710(b)(4)(v)
(ii) *Quality Control Program* — The Permittee shall develop and implement a quality control program for each continuous monitoring system (CMS).	40 CFR 63.8(d)(2)
(A) This quality control program shall include, at a minimum, a written protocol that described procedures for each of the following operations:	40 CFR 63.8(d)(2)
(I) Initial and any subsequent calibration of the CMS;	40 CFR 63.8(d)(2)(i)
(II) Determination and adjustment of the calibration drift of the CMS;	40 CFR 63.8(d)(2)(ii)
(III) Preventive maintenance of the CMS, including spare parts inventory;	40 CFR 63.8(d)(2)(iii)
(IV) Data recording, calculations, and reporting;	40 CFR 63.8(d)(2)(iv)
(V) Accuracy audit procedures, including sampling and analysis methods; and	40 CFR 63.8(d)(2)(v)
(VI) Program of corrective action for a malfunctioning CMS.	40 CFR 63.8(d)(2)(vi)

Federally Enforceable Provisos	Regulations
(4) **Corrective Action Plan —**	40 CFR 63.7710(b)(5)
(i) For each BLDS alarm triggered, the Permittee shall initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable.	40 CFR 63.7710(b)(5)
(ii) Corrective actions may include, but are not limited to, the following:	40 CFR 63.7710(b)(5)
(A) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions;	40 CFR 63.7710(b)(5)(i)
(B) Sealing off and/or replacing defective bags or filter media;	40 CFR 63.7710(b)(5)(ii) & (iii)
(C) Sealing off defective baghouse compartment(s);	40 CFR 63.7710(b)(5)(iv)
(D) Cleaning the BLDS probe;	40 CFR 63.7710(b)(5)(v)
(E) Making process changes;	40 CFR 63.7710(b)(5)(vi)
(F) Shutting down the process and/or units producing the PM emissions; and/or	40 CFR 63.7710(b)(5)(vii)
(G) Conducting other repairs to the capture devices, control devices, or BLDS.	40 CFR 63.7710(b)(5)(iii) & (v) Rule 335-3-16-.05(a)
5.3 Compliance & Performance Test Methods & Procedures	
(a) ***General —***	
(1) The Permittee must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in accordance with Subpart EEEEE at all times, including during periods of startup, shutdown, and malfunctions.	40 CFR 63.7720(a)
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** To demonstrate compliance with the emissions limitations in Proviso 5.2(b), the Permittee shall conduct each performance test according to the following:	
(i) *Particulate Matter Emissions —*	
(A) All applicable procedures and requirements of 40 CFR 63.7732(b).	40 CFR 63.7732(b)
(B) Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	40 CFR 63.7732(b)(1)(v) Rule 335-3-16-.05(c)1.

Federally Enforceable Provisos	Regulations
(ii) *Total MHAP Emissions —*	
(A) All applicable procedures and requirements of 40 CFR 63.7732(c).	40 CFR 63.7732(c)
(B) Method 29 of Appendix A-8 to 40 CFR Part 60 shall be used in determining the concentration of MHAP emissions.	40 CFR 63.7732(c)(1)(v)
(iii) *Visible & Fugitive Emissions —*	
(A) All applicable requirements in 40 CFR 63.6(h)(5) and 63.7732(d).	40 CFR 63.7732(d)
(B) Using a certified observer, the Permittee may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure;	40 CFR 63.7732(d)(1)
— OR —	
(C) Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points may afford such an observation.	
(D) The minimum total time of opacity observations shall be 3 hours (*i.e.*, 30 6-minute averages).	40 CFR 63.6(h)(5)(ii)
(E) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	40 CFR 63.7732(d)(1)
(F) Method 22 of Appendix A-7 to 40 CFR Part 60 shall be used in determining the presence of fugitive emissions.	Rule 335-3-16-.05
(2) **Frequency —** The Permittee shall conduct performance tests to demonstrate compliance with the emission limitations in Proviso 5.2(b) according to the following schedule:	
(i) *PM & Total MHAP Emissions —*	40 CFR 63.7731(a)
(A) The Permittee shall conduct performance tests of EP-019 no less frequently than once every 5 years; or	
(B) Each time the Permittee elects to change an operating limit or make a process change that is likely to increase emissions.	

Federally Enforceable Provisos	Regulations
(ii) *Visible & Fugitive Emissions —*	40 CFR 63.7731(b)
(A) The Permittee shall conduct performance tests no less frequently than every 6 months; or	
(B) Each time the Permittee makes a process change likely to increase fugitive emissions; or	
(C) During testing intervals when PM and/or total MHAP performance tests are also conducted so that the opacity observations are recorded simultaneously.	40 CFR 63.7732(d)(2)
(3) **Concurrent Testing & Evaluations —** The Permittee shall perform the following concurrently with the 5-year PM performance testing:	
(i) *CMS Performance Evaluations —*	*Table 1 to Subpart EEEEE* 40 CFR 63.8(e)(4)
(A) A performance evaluation of each CMS in accordance with the applicable sections of 40 CFR 63.8(e).	
5.4 EMISSIONS MONITORING	
(a) ***General —*** The Permittee shall adhere to the following monitoring and data collection requirements:	
(1) Monitor continuously (or collect data at all required intervals) any time a source of emissions is operating, except for the following:	40 CFR 63.7742(a)
(i) Monitoring malfunctions, associated repairs, and required QA/QC activities (including calibration checks and required zero/span adjustments).	
(2) Any data recorded during the events described in Proviso 5.4(a)(1)(i) shall not be used for:	40 CFR 63.7742(b)
(i) Any data averaging or calculations used to report emissions or operating levels, or	
(ii) Fulfilling any minimum data availability requirement.	
(3) A *monitoring malfunction* is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data.	40 CFR 63.7742(c)
(i) Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	
(b) ***Periodic Monitoring Requirements —*** Unless monitoring is specifically prescribed for EP-003, the Permittee shall perform the following periodic monitoring requirements for EP-019 no less frequently than the time intervals prescribed below:	

Federally Enforceable Provisos	Regulations
(1) **Daily Inspections —**	
(i) *Visible Emissions —*	Rule 335-3-16-.05(c)
(A) A daily visual check of EP-003 and EP-019 shall be performed by a person familiar with Method 9.	
(B) If estimated instantaneous visible emissions greater than 10% opacity are observed and not corrected within a 1-hour period, then a Method 9 visible emissions observation (VEO) shall be performed within 4 hours of the observation.	
(C) If a VEO is performed, then the Permittee shall document the results in a logbook (written or electronic) using an ADEM VEO form and include the cause(s) of the visual emissions and the corrective action(s) taken.	
(ii) *Differential Pressure —*	
(A) Monitor the pressure drop across each baghouse cell.	40 CFR 63.7740(c)(1)
(B) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 10.0 in. H_2O.	Rule 335-3-16-.05(c)1.
(iii) *Compressed Air Supply —*	40 CFR 63.7740(c)(3)
(A) Check the compressed air supply to each pulse-jet baghouse.	
(2) **Weekly Inspections —**	
(i) *Baghouse Cleaning Mechanisms —*	
(A) Confirm that dust is being removed from the hoppers via visual inspections or other means to ensure proper functioning of removal mechanisms.	40 CFR 63.7740(c)(2)
(B) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.	40 CFR 63.7740(c)(4) Rule 335-3-16-.05(c)1.
(C) Check baghouse cleaning mechanisms for proper functioning through visual inspections or equivalent means.	40 CFR 63.7740(c)(5) Rule 335-3-16-.05(c)1.

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(3) **Monthly Inspections —**	
(i) *Total Capture System Inspections —*	40 CFR 63.7710(b)(1)
(A) Inspect all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches).	
(B) Include observations of the physical appearance of the equipment (*e.g.*, presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion).	
(C) The Permittee shall repair any defect or deficiency in the capture system as soon as practicable.	
(4) **Quarterly Inspections —**	
(i) Inspect the interior and exterior of the baghouse structure, access doors, door seals, and filter media.	Rule 335-3-16-.05(c)1.
(ii) Inspect the internal mechanisms of the baghouse hopper.	Rule 335-3-16-.05(c)1.
(iii) Confirm the physical integrity of the baghouse through visual inspections of the baghouse interior for air leaks.	40 CFR 63.7740(c)(7)
(iv) Inspect fans for wear, material buildup, and corrosion through visual inspections, vibration detectors, or equivalent means.	40 CFR 63.7740(c)(8)
(c) ***Continuous Monitoring Requirements —***	
(1) **Bag Leak Detection System (BLDS) —** The Permittee shall monitor at all times the relative change in PM loadings in each exhaust from EP-019 using a BLDS that meets the following specifications:	40 CFR 63.7740(b)
(i) Be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.	40 CFR 63.7741(b)(1)
(ii) The BLDS sensor must provide output of relative particulate matter loadings, which shall be continuously recorded using electronic or other means.	40 CFR 63.7741(b)(2)
(iii) Be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such that it can be heard by the appropriate plant personnel.	40 CFR 63.7741(b)(3)

Federally Enforceable Provisos	Regulations
(iv) The initial adjustment of each system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (if applicable).	40 CFR 63.7741(b)(4)
(v) Following the initial adjustment, the Permittee shall not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time without approval from the Department.	40 CFR 63.7741(b)(5)
(A) However, once per quarter, the Permittee may adjust the sensitivity of the BLDS to account for seasonable effects, including temperature and humidity, according to the procedures in the operation and maintenance plan required by Proviso 5.2(d)(3)(i).	
(vi) All BLDS sensors shall be installed downstream of the baghouse.	40 CFR 63.7741(b)(6)
(vii) If multiple BLDS detectors are required, the BLDS instrumentation and alarm may be shared among these detectors.	40 CFR 63.7741(b)(7)
5.5 RECORDKEEPING & REPORTING REQUIREMENTS	
(a) ***Retention of Records —***	
(1) **General —**	40 CFR 63.7753(b) 40 CFR 63.10(b)(1) Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the EPA via the CEDRI or to the Department may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request as part of an on-site compliance evaluation.	40 CFR 63.7752(e)

Federally Enforceable Provisos	Regulations
(b) ***Recordkeeping Requirements*** — The Permittee shall record, document, and maintain all information needed to demonstrate continuous compliance with this Permit (e.g., dates, times, names of personnel performing task(s), etc.).	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)2.
(1) **General —**	
(i) A copy of each notification and report submitted to comply with Subpart EEEEE, including all documentation supporting any initial notification or notification of compliance status submitted as required by 40 CFR 63.10(b)(2)(xiv).	40 CFR 63.7752(a)(1)
(ii) Records of all required maintenance performed on the air pollution control and monitoring equipment.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii)
(iii) Records of all performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii).	40 CFR 63.7752(a)(3)
(2) **Baghouse Inspections & Checks —**	
(i) All daily baghouse checks required by Proviso 5.4(b)(1).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(ii) All weekly baghouse inspections required by Proviso 5.4(b)(2).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(iii) All monthly baghouse inspections required by Proviso 5.4(b)(3).	40 CFR 63.7743(c)(1)
(iv) All quarterly baghouse inspections required by Proviso 5.4(b)(4).	Rule 335-3-16-.05(c)2. 40 CFR 63.7743(c)(1)
(v) All visual emissions observations performed using Method 9 of Appendix A-4 to 40 CFR Part 60.	Rule 335-3-16-.05(c)2.
(vi) All the calibrations of each differential pressure gauge.	Rule 335-3-16-.05(c)2.
(vii) All problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2.
(3) **Operation & Maintenance Plan Records —**	
(i) A current copy of the OMP as required by Proviso 5.2(d) above, including all information needed to demonstrate conformance with the OMP requirements.	40 CFR 63.7745(b)
(A) This copy shall remain onsite and readily available for expeditious review and inspection upon request.	
(B) This copy shall be maintained for the life of this facility, or until the facility is no longer subject to Subpart EEEEE.	

Federally Enforceable Provisos	Regulations
(ii) *Monthly Inspections of Total Capture Systems* — All records documenting each inspection of the total capture systems and initiation of corrective action as required by Proviso 5.2(d)(1).	40 CFR 63.7745(a)(1) 40 CFR 63.7710(b)(1)
(iii) *Preventative Maintenance Plan* — All records documenting the execution of the preventative maintenance plan as required by Proviso 5.2(d)(2).	40 CFR 63.7745(a)(2) 40 CFR 63.7710(b)(3)
(iv) *Site-Specific Monitoring Plan* — For each SSMP required by Proviso 5.2(d)(3):	
(A) All records documenting the execution of the SSMP for and the proper operation and maintenance of each BLDS.	40 CFR 63.7745(a)(3) 40 CFR 63.7710(b)(4)
(v) *Corrective Action Plan* — For the corrective action plan required by Proviso 5.2(d)(4):	
(A) Records of the times each BLDS alarm sounded.	40 CFR 63.7743(c)(2)
(B) All records documenting the initiation and completion of corrective action(s) for each valid BLDS alarm, including the following information:	40 CFR 63.7745(a)(4) 40 CFR 63.7710(b)(5)
(I) The date and time when corrective action was initiated;	40 CFR 63.7743(c)(2)
(II) The corrective action taken; and	
(III) The date on which corrective action was completed.	
(4) **Deviations —**	
(i) Any instance where the Permittee failed to comply with any requirement of this Permit, including during periods of startup, shutdown, or malfunction.	40 CFR 63.7746(a)
(ii) All records documenting each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement Subpart EEEEE:	40 CFR 63.7752(d)
(A) Date, start time, and duration of each failure;	40 CFR 63.7752(d)(1)
(B) List of the affected sources or equipment for each failure;	40 CFR 63.7752(d)(2)
(C) An estimate of the quantity of each regulated pollutant emitted during each deviation and a description of the method used to estimate the emissions;	40 CFR 63.7752(d)(2)
(D) Actions taken to minimize emissions as required by Proviso 5.2(a); and	40 CFR 63.7752(d)(3) 40 CFR 63.7710(a)
(E) Any corrective actions taken to return the affected unit to its normal or usual manner of operation.	40 CFR 63.7752(d)(3)

Federally Enforceable Provisos	Regulations
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee shall submit a SCR according to the following requirements:	40 CFR 63.7751
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.7751(a)(3)
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.7751(a)(4)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.7751(a)(5)
(ii) *Contents —* Each SCR shall contain the following information and/or statements:	40 CFR 63.7751(b)
(A) Company name and address.	40 CFR 63.7751(b)(1)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.7751(b)(2)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.7751(b)(3)
(D) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.7751(b)(5)
(I) "There were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period."	
(E) For reporting periods during which times there were no periods where a continuous monitoring system (CMS) was inoperable or out-of-control, a statement that:	40 CFR 63.7751(b)(6)
(I) "There were no periods during which any CMS was inoperable or out-of-control during the reporting period."	
(F) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, work practice standard, or operation and maintenance requirement) that occurs during the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7752(b)(7)(i) through (iii).	40 CFR 63.7751(b)(7)

Federally Enforceable Provisos	Regulations
(G) For each CMS required under this Permit or Subpart EEEEE that was inoperable or out-of-control during any portion of the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7751(b)(8)(i) through (vi).	40 CFR 63.7751(b)(8)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.7751(e), (h), & (i)
(2) **Notification of Performance Testing —** The Permittee shall submit to the Department a notification of the intent to conduct a performance test no fewer than 60 days prior to the scheduled performance test.	40 CFR 63.7750(d) 40 CFR 63.7(b)(1)
(i) In the event the Permittee is unable to conduct the performance test on the date specified in this notification due to unforeseeable circumstances, the Permittee shall notify the Department as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled.	40 CFR 63.7(b)(2)
(ii) Semiannual testing for opacity is exempt from this notification requirement.	Rule 335-3-16-.07(f)
(3) **Performance Test Reports —** Within 60 days after the date of completing any performance test, the Permittee shall submit the results of each performance test according to the following:	40 CFR 63.7751(f)
(i) The Permittee shall certify that the capture system operated normally during the performance test.	
(ii) Each performance test report shall be submitted to the Department.	
(iii) Each performance test report shall be submitted to the EPA following the procedures specified in 40 CFR 63.7751(f)(1) through (3).	
(4) **Performance Evaluation Reports —** Within 60 days after the date of completing any performance evaluation of any continuous monitoring system, the Permittee shall submit the results of each performance evaluation according to the requirements of 40 CFR 63.7751(g)(1) through (3).	40 CFR 63.7751(g)

Section 6– Castings Finishing Operations (EP-004, 005, 011 & 016)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

EMISSION LIMITATIONS				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-004 EP-005 EP-011 EP-016	All Casting Finishing Equipment	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
EP-004	Wheelabrator Vibratunnel Shotblast w/ Baghouse	PM	4.1 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
EP-005	Pangborn Shotblast w/ Shared Baghouse		1.75 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
EP-011	10 Pedestal Grinders w/ Shared Baghouse		5.6 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
EP-016	2 Wheelabrator Tumblast (15 TPH) w/ Baghouse		1.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
Fugitives	Foundry buildings/structures	Opacity	20%/27%	40 CFR 63.7690(a)(7)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

Provisos for Castings Finishing Operations (EP-004, 005, 011 & 016)

Federally Enforceable Provisos	Regulations
6.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.02 — *Control of Particulate Emissions: Fugitive Dust and Fugitive Emissions*;	Rule 335-3-4-.02
(4) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(5) 40 CFR Part 63, Subpart EEEEE — *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries* (Subpart EEEEE);	Rule 335-3-11-.06(108) 40 CFR 63.7681
(6) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in *Table 1 to Subpart EEEEE*; and	Rule 335-3-11-.06(1) 40 CFR 63.7760
(7) 40 CFR Part 64 — *Compliance Assurance Monitoring* (CAM), as specified in Proviso 1.33 and the CAM plans in Section 201 and Section 202.	40 CFR 64.2(a)
(b) These sources have an enforceable limit to prevent them from being subject to the applicable provisions of the following:	Rule 335-3-14-.04 (Anti-PSD)
(1) ADEM Admin. Code r. 335-3-14-.04 — *Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration [PSD])*.	
6.2 EMISSION STANDARDS	
(a) ***General —***	
(1) The Permittee shall always operate and maintain these units, including any associated control devices and monitoring equipment, in a manner consistent good air pollution control practices for minimizing emissions.	40 CFR 63.7710(a)

Federally Enforceable Provisos	Regulations
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emission limitations:	
(1) **All Sources —**	
(i) *Visible Emissions —*	
(A) All visible emissions (VE), as determined by rolling 6-minute average (SMA), shall not exceed the opacity limitations as specified in Proviso 1.29.	Rule 335-3-4-.01(1)
(ii) *Particulate Matter —*	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31.	Rule 335-3-4-.04
(2) **Structures and Buildings Housing Foundry Emissions Sources —**	
(i) *Visible Emissions & Fugitive Emissions —*	
(A) The Permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (SMA), except for one SMA per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7)
(3) **EP-004 —**	
(i) *Particulate Matter —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 4.1 lb/hr	
(4) **EP-005 —**	
(i) *Particulate Matter —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 1.75 lb/hr	
(5) **EP-011 —**	
(i) *Particulate Matter —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 5.6 lb/hr	
(6) **EP-016 —**	
(i) *Particulate Matter —*	Rule 335-3-14-.04 (Anti-PSD)
(A) 1.0 lb/hr	

Federally Enforceable Provisos	Regulations
6.3 Compliance & Performance Test Methods & Procedures	
(a) ***General —***	
(1) The Permittee shall comply with the emissions limitations, work practice standards, and operation and maintenance requirements in accordance with Subpart EEEEE at all times, including during periods of startup, shutdown, and malfunctions.	40 CFR 63.7720(a)
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** To demonstrate compliance with the emissions limitations in Proviso 3.2(b), the Permittee shall conduct each performance test according to the following:	
(i) *Visible Emissions —*	
(A) All applicable requirements in 40 CFR 63.6(h)(5) and 63.7732(d).	40 CFR 63.7732(d)
(B) Using a certified observer, the Permittee may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure;	40 CFR 63.7732(d)(1)
— OR —	
(C) Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points may afford such an observation.	
(D) The minimum total time of opacity observations shall be 3 hours (30 6-minute averages).	40 CFR 63.6(h)(5)(ii)
(E) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	40 CFR 63.7732(d)(1)
(ii) *Particulate Matter —*	
(A) If testing is required, Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	Rule 335-3-16-.05(c)1.
(2) **Frequency —** The Permittee shall conduct performance tests to demonstrate compliance with the respective emission limits according to the following schedule:	
(i) *Visible & Fugitive Emissions —*	
(A) The Permittee shall conduct performance tests no less frequently than every 6 months; or	40 CFR 63.7731(b)
(B) Each time the Permittee makes a process change likely to increase fugitive emissions; or	

Federally Enforceable Provisos	Regulations
(C) During testing intervals when PM and/or total MHAP performance tests are also conducted so that the opacity observations are recorded simultaneously.	40 CFR 63.7732(d)(2)
6.4 EMISSIONS MONITORING	
(a) ***General —***	
(1) The Permittee shall conduct and record all periodic maintenance, routine maintenance, and repairs on the emissions units, monitoring equipment, and control devices, as needed.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)1.
(b) ***Periodic Monitoring Requirements —*** The Permittee shall perform the following periodic monitoring requirements no less frequently than the time intervals prescribed below:	
(1) **Daily Inspections —**	
(i) *Visible Emissions —*	Rule 335-3-16-.05(c)1.
(A) A daily visual check of EP-004, EP-005, EP-011, and EP-016 shall be performed by a person familiar with Method 9.	
(B) If estimated instantaneous visible emissions greater than 10% opacity are observed and not corrected within a 1-hour period, then a Method 9 visible emissions observation (VEO) shall be performed within 4 hours of the observation.	
(C) If a VEO is performed, then the Permittee shall document the results in a logbook (written or electronic) using an ADEM VEO form and include the cause(s) of the visual emissions and the corrective action(s) taken.	
(ii) *Differential Pressure —*	Rule 335-3-16-.05(c)1.
(A) Monitor the pressure drop across each baghouse cell.	
(B) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 6.0 in. H_2O for EP-004, -005, & -011.	
(C) The differential pressure shall be no less than 1.0 in. H_2O and no greater than 8.0 in. H_2O for EP-016.	

Federally Enforceable Provisos	Regulations
(2) **Weekly Inspections —** (i) *Baghouse Cleaning Mechanisms —* (A) Confirm that dust is being removed from the hoppers via visual inspections or other means to ensure proper functioning of removal mechanisms. (B) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (C) Check baghouse cleaning mechanisms for proper functioning through visual inspections or equivalent means.	Rule 335-3-16-.05(c)1.
(3) **Quarterly Inspections —** (i) Inspect all equipment that is important to the performance of the total capture system (*i.e.*, pressure sensors, dampers, and damper switches). (ii) Conduct internal and external inspections of the following components of each baghouse: (A) Physical structures, supports, and walls; (B) Internal walls and structures for air leaks or other defects; (C) Access door(s) and seal(s); (D) Filter media; and (E) Hopper and other dust removal mechanisms. (iii) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means. (iv) Include observations of the physical appearance of each item (*e.g.*, holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust, and signs of erosion, corrosion or other forms of deterioration). (v) The Permittee shall repair any defect or deficiency in the capture system as soon as practicable.	Rule 335-3-16-.05(c)1.

Federally Enforceable Provisos	Regulations
6.5 Recordkeeping & Reporting Requirements	
(a) ***Retention of Records —***	
(1) **General —**	40 CFR 63.7753 40 CFR 63.10(b)(1) Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the EPA via the CEDRI or to the Department may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request as part of an on-site compliance evaluation.	40 CFR 63.7752(e)
(b) ***Recordkeeping Requirements —*** The Permittee shall record, document, and maintain all information (*e.g.*, dates, times, and names of personnel who performed each inspection) needed to demonstrate continuous compliance with this Permit.	40 CFR 63.7752(a)(2) 40 CFR 63.10(b)(2)(iii) Rule 335-3-16-.05(c)2.
(1) **General —**	
(i) Records of all performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii).	40 CFR 63.7752(a)(3)
(2) **Baghouse Inspections & Checks —**	Rule 335-3-16-.05(c)2.
(i) All daily checks required under Proviso 6.4(b)(1).	
(ii) All weekly inspections required under Proviso **Error! Reference source not found.**.	
(iii) All quarterly inspections required under Proviso **Error! Reference source not found.**.	
(iv) All VEO performed using Method 9 of Appendix A-4 to 40 CFR Part 60.	
(3) **Maintenance —**	Rule 335-3-16-.05(c)2.
(i) All periodic maintenance, routine maintenance, and repairs on the emissions units, monitoring equipment, and control devices.	

Federally Enforceable Provisos	Regulations
(4) **Deviations —**	
(i) Any instance where the Permittee failed to comply with any requirement of this Permit, including during periods of startup, shutdown, or malfunction.	40 CFR 63.7746(a) Rule 335-3-16-.05(c)2.
(ii) All records documenting each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement Subpart EEEEE:	40 CFR 63.7752(d)
(A) Date, start time, and duration of each failure;	40 CFR 63.7752(d)(1)
(B) List of the affected sources or equipment for each failure;	40 CFR 63.7752(d)(2)
(C) An estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions;	40 CFR 63.7752(d)(2)
(D) Actions taken to minimize emissions in accordance with safety and good air pollution control practices; and	40 CFR 63.7752(d)(3)
(E) Any corrective actions taken to return the affected unit to its normal or usual manner of operation.	40 CFR 63.7752(d)(3)
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee must submit a semiannual compliance report according to the following requirements:	40 CFR 63.7751
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.7751(a)(3)
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.7751(a)(4)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.7751(a)(5)

Federally Enforceable Provisos	Regulations
(ii) *Contents* — Each SCR shall contain the following information and/or statements:	40 CFR 63.7751(b)
(A) Company name and address.	40 CFR 63.7751(b)(1)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.7751(b)(2)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.7751(b)(3)
(D) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.7751(b)(5)
(I) "There were no deviations from the emissions limitations, work practice standards, or operation and maintenance requirements during the reporting period."	
(E) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, work practice standard, or operation and maintenance requirement) that occurs during the reporting period, the Permittee shall follow the reporting requirements of 40 CFR 63.7752(b)(7).	40 CFR 63.7751(b)(7)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.7751(e), (h), & (i)
(2) **Performance Test Reports —** Within 60 days after the date of completing any performance test, the Permittee shall submit the results of the performance test according to the following:	40 CFR 63.7751(f)
(i) The facility must certify that the capture system operated normally during the performance test.	
(ii) Each performance test report shall be submitted to the Department.	
(iii) Each performance test report shall be submitted to the EPA following the procedures specified in 40 CFR 63.7751(f)(1) through (3).	

Section 7 – Surface Coating Operations (EP-080)

Summary Page

Permitted Operating Schedule: $24\frac{hr}{day} \times 7\frac{day}{week} \times 52\frac{week}{yr} = 8,760\frac{hr}{year}$

Emission Limitations				
Emission Point No.	**Description**	**Pollutant**	**Emission Limit**	**Regulation**
EP-080	Surface Coating Operations	OHAP	2.6 lb/gal	40 CFR 63.3890(b)(1)
ALL	All sources	Opacity	20%/40%	Rule 335-3-4-.01

Provisos for Surface Coating Operations (EP-080)

Federally Enforceable Provisos	Regulations
7.1 APPLICABILITY	
(a) These sources are subject to the applicable requirements of the following:	
(1) ADEM Admin. Code r. 335-3-16 — *Major Source Operating Permits*;	Rule 335-3-16-.03
(2) ADEM Admin. Code r. 335-3-4-.01 — *Control of Particulate Emissions: Visible Emissions*;	Rule 335-3-4-.01
(3) ADEM Admin. Code r. 335-3-4-.04 — *Control of Particulate Emissions: Process Industries – General*;	Rule 335-3-4-.04
(4) 40 CFR Part 63, Subpart MMMM — *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products* (Subpart MMMM); and	Rule 335-3-11-.06(90) 40 CFR 63.3881
(5) 40 CFR Part 63, Subpart A — *General Provisions*, as specified in T*able 2 to Subpart MMMM of Part 63.*	Rule 335-3-11-.06(1) 40 CFR 63.3901
7.2 EMISSION STANDARDS	
(a) ***General —***	
(1) The Permittee shall at all times operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	40 CFR 63.3900(b)
(b) ***Emissions Limitations —*** The Permittee shall comply with the following emission limitations:	
(1) **All Sources —**	
(i) *Visible Emissions —*	
(A) All visible emissions (VE), as determined by rolling 6-minute average (SMA), shall not exceed the opacity limitations as specified in Proviso 1.29.	Rule 335-3-4-.01(1)
(ii) *Particulate Matter —*	
(A) All sources of particulate emissions shall not exceed the emission rate specified under Proviso 1.31.	Rule 335-3-4-.04
(2) **Surface Coatings (EP-080) —**	
(i) *Organic HAP* (OHAP) —	
(A) 2.6 lb OHAP per gal coating solids $\left({}^{\mathrm{lb_{OHAP}}}/_{\mathrm{gal_{solid}}}\right)$ used during each 12-month compliance period	40 CFR 63.3890(b)(1)

Federally Enforceable Provisos	Regulations
(B) The Permittee must include all coatings (as defined in 40 CFR 63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in Proviso 8.2(b)(2)(i)(A).	40 CFR 63.3891(b)
7.3 COMPLIANCE & PERFORMANCE TEST METHODS & PROCEDURES	
(a) ***General —***	
(1) The Permittee must be in compliance with the applicable emission limit in Subpart MMMM at all times.	40 CFR 63.3900(a)(1)
(b) ***Performance Testing Requirements —***	
(1) **Methodology —** If testing should be required, the Permittee shall conduct each compliance test according to the following:	
(i) *Visible Emissions —*	Rule 335-3-16-.05(c)1.
(A) Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of opacity.	
(ii) *Particulate Matter —*	Rule 335-3-16-.05(c)1.
(A) Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in determining the concentration of PM emissions.	
(iii) *Organic HAP Content —*	
(A) Method 311 of Appendix A to 40 CFR Part 63 may be used in determining the concentration of OHAP.	40 CFR 63.3941(a)(1)
(I) Count each organic HAP in *Table 5 to Subpart MMMM* that is measured to be present at least 0.1% by mass (at least 1.0% mass for other compounds).	40 CFR 63.3941(a)(1)(i)
(II) Round the mass fraction of each counted OHAP to the nearest ten-thousandth (*i.e.*, 0.0001 or 0.01% mass)	40 CFR 63.3941(a)(1)(i)
(III) Sum the individual organic HAP mass fractions rounded to the nearest thousandth (*i.e.*, 0.001 or 0.1% mass).	40 CFR 63.3941(a)(1)(ii)
(B) Method 24 to Appendix A-7 to 40 CFR Part 60 may be used in determining the concentration of nonaqueous VOC, which may be used as a substitute for the OHAP limit in Proviso 7.2(b)(2)(i).	40 CFR 63.3941(a)(2)

Federally Enforceable Provisos	Regulations
7.4 Emissions Monitoring	
(a) ***Periodic Monitoring Requirements*** — The Permittee shall demonstrate continuous compliance with the requirements of Subpart MMMM by maintaining of surface coating records according to Proviso 7.5(b) and by determining the organic HAP emission rate for each compliance period in accordance with the requirements in 40 CFR 63.3951(a) through (g).	40 CFR 63.3952(a) Rule 335-3-16-.05(c)1.
7.5 Recordkeeping & Reporting Requirements	
(a) ***Retention of Records*** — The Permittee shall adhere to the following for maintaining and retaining all records and reports:	
(1) **General —**	40 CFR 63.3931 Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(2) **Electronically Submitted Records —**	
(i) Any records that are submitted electronically to the Department or via the EPA's CEDRI may be maintained in electronic format, if these electronically maintained records are in a file format suitable for inspection and can be immediately produced upon request.	40 CFR 63.3931(a)
(b) ***Recordkeeping Requirements*** — The Permittee shall record, document, and maintain all information (*e.g.*, dates, times, and names of personnel who performed each inspection) needed to demonstrate continuous compliance with this Permit.	

Federally Enforceable Provisos	Regulations
(1) **Surface Coating Operations —**	
(i) A current copy of information provided by materials suppliers or manufacturers (*e.g.*, SDS, manufacturer's formulation data, or test data) used to determine OHAP concentrations and densities for all coatings, thinners, and/or other additives and cleaning materials, and the volume fraction of coating solids for each coating.	40 CFR 63.3930(b)
(ii) Coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.	40 CFR 63.3930(c)(1)
(iii) Calculations of the total mass of OHAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of 40 CFR 63.3951.	40 CFR 63.3930(c)(3)
(iv) Calculations of each 12-month OHAP emission rate using Equation 3 of 40 CFR 63.3951.	40 CFR 63.3930(c)(3)
(v) Names and volumes of each coating, thinner and/or other additive, and cleaning material used during each compliance period.	40 CFR 63.3930(d)
(vi) Mass fractions of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period (unless the material is tracked by weight).	40 CFR 63.3930(e)
(vii) Volume fractions of coating solids for each coating used during each compliance period.	40 CFR 63.3930(f)
(viii) Densities for each coating, thinner and/or other additive, and cleaning material used during each compliance period.	40 CFR 63.3930(g)
(2) **Deviations —**	
(i) The date, time, and duration of the deviation.	40 CFR 63.3930(j)(1)
(ii) A list of the affected sources or equipment for which the deviation occurred and the cause of the deviation.	40 CFR 63.3930(j)(2)
(iii) An estimate of the quantity of each regulated pollutant emitted over the applicable emission limit in Proviso 8.2(b)(2)(i)(A) and a description of the method used to calculate the estimate.	40 CFR 63.3930(j)(3)
(iv) A record of actions taken to minimize emissions in accordance with Proviso 8.2(a)(1) and any corrective actions taken to return the affected unit to its normal or usual manner of operation.	40 CFR 63.3930(j)(4)

Federally Enforceable Provisos	Regulations
(c) ***Reporting Requirements —***	
(1) **Semiannual Compliance Reports (SCR) —** The Permittee must submit a semiannual compliance report according to the following requirements:	
(i) *Reporting Periods & Submission Schedule —*	
(A) Each SCR shall cover the semiannual reporting period of January 1st through June 30th —OR— the semiannual reporting period of July 1st through December 31st.	40 CFR 63.3920(a)(1)(ii)
(B) Each subsequent SCR shall be postmarked or delivered no later than the following July 31st —OR— January 31st immediately following the conclusion of the semiannual reporting period.	40 CFR 63.3920(a)(1)(iii)
(C) Alternatively, the Permittee may submit this SCR simultaneously with the required semiannual monitoring report (SMR) required under Proviso 1.21.	40 CFR 63.3920(a)(1)(iv)
(ii) *Contents —* Each SCR shall contain the following information and/or statements:	
(A) Company name and address.	40 CFR 63.3920(a)(3)(i)
(B) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	40 CFR 63.3920(a)(3)(ii)
(C) Date of report and beginning and ending dates of the reporting period.	40 CFR 63.3920(a)(3)(iii)
(D) Identification of the compliance option or options specified in 40 CFR 63.3891 that was used on each coating operation during the reporting period.	40 CFR 63.3920(a)(3)(iv)
(E) The calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.	40 CFR 63.3920(a)(3)(v)
(F) For reporting periods during which no deviations are being reported, a statement that:	40 CFR 63.3920(a)(4)
(I) "There were no deviations from the emissions limitations during the reporting period."	
(G) For reporting periods during which there was a deviation from an emissions limitation, the Permittee shall follow the reporting requirements of 40 CFR 63.3920(a)(6).	40 CFR 63.3920(a)(6)
(iii) All SCR shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).	40 CFR 63.3920(f)

Section 8 through 199 – [*RESERVED*]

Section 200 – Facility-wide Fugitive Dust Plan

Federally Enforceable Provisos	Regulations
200.1 Applicability	
(a) This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16 — *Major Source Operating Permits*.	Rule 335-3-16-.03
200.2 Emission Standards	
(a) The Permittee shall take reasonable precautions as directed in Proviso 200.3(a) to prevent the creation of fugitive dust on-site that may travel beyond the site boundaries or property lines.	Rule 335-3-4-.02
200.3 Compliance & Performance Test Methods & Procedures	
(a) The Permittee shall comply with the approved facility-wide fugitive dust plan received by the Department on June 26, 2025.	Rule 335-3-16-.05(c)1.
200.4 Emissions Monitoring	
(a) The Permittee shall conduct weekly visual observations, considering factors such as recent rainfall or wet conditions, in areas with potential to generate fugitive dust.	Rule 335-3-16-.05(c)1.
(b) If any fugitive dust is observed traveling beyond the site boundaries or property lines, then the Permittee shall initiate any necessary corrective actions within four hours of the initial observation.	Rule 335-3-16-.05(c)1.
200.5 Recordkeeping & Reporting Requirements	
(a) ***Retention of Records —*** The Permittee shall adhere to the following for maintaining and retaining all records and reports:	
(1) **General —**	Rule 335-3-16-.05(c)2.
(i) All records (including all reports, notifications, and other submissions) shall be maintained in a form suitable for inspection for a period of at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	
(ii) At a minimum, the most recent 2 years of data shall be maintained onsite in a form suitable for inspection and be made immediately available upon request.	
(iii) The remaining 3 years of data may be maintained off site in a form suitable for inspection.	
(b) ***Recordkeeping Requirements —*** The Permittee shall maintain records of all inspections, including all visible observations performed in accordance with Proviso 200.4(a), including any problems observed and corrective actions taken.	Rule 335-3-16-.05(c)2.

CHAPTER III — COMPLIANCE ASSURANCE MONITORING (CAM)

Section 201– CAM Plan for EP-009, -015, & -016

201.1 INDICATOR	I. Visible Emissions (VE)	II. Differential Pressure (ΔP)	III. Inspections & Maintenance
(a) Measurement Approach	Method 9 of Appendix A-4 to 40 CFR Part 60.	Magnehelic/photohelic gauge, or electronic monitoring (BPAC).	All required periodic inspections and maintenance.
201.2 INDICATOR RANGE			
(a) Allowable Range	Less than 10% opacity.	1.0 through 8.0 in. H_2O.	Performing and documenting all inspections and maintenance.
(b) Excursion	Greater than 10% opacity.	Less than 1.0 in. H_2O, or greater than in. H_2O.	Not performing or documenting inspections or maintenance.
(c) Excursion Response	Correct VE within 1 hour, or conduct Method 9 VEO within 4 hours. Document inspection(s) & corrective action(s). Follow reporting requirements.	Document baghouse inspection(s) & corrective action(s). Follow reporting requirements.	Follow reporting requirements.
201.3 PERFORMANCE CRITERIA			
(a) Data Representativeness	VE checks are performed at baghouse stack outlet.	ΔP is measured from the inlet to outlet of each baghouse (or cell).	Internal and external baghouse inspections are conducted.
(b) Verification of Operation Status	Conducted as part of periodic inspections.	Conducted as part of periodic inspections.	Conducted as part of periodic inspections.
(c) QA/QC Practices and Criteria	Personnel conducting VE checks are Method 9 certified.	Annual manual calibration, or automatic electronic calibration for BPAC.	Qualified personnel perform inspections & maintenance.
(d) Monitoring Frequency	Daily.	Daily.	As specified in this Permit.
(e) Data Collection Procedures	Records will note time, date, and name of observer.	Records will note time, date, and name of the observer.	As specified in this Permit.
(f) Averaging Period	VE Checks: Instantaneous; Method 9: 6-min average	Instantaneous	

Section 202– CAM Plan for EP-004, -005, & -011

202.1 INDICATOR	I. Visible Emissions (VE)	II. Differential Pressure (ΔP)	III. Inspections & Maintenance
(a) Measurement Approach	Method 9 of Appendix A-4 to 40 CFR Part 60.	Magnehelic/photohelic gauge, or electronic monitoring (BPAC).	All required periodic inspections and maintenance.
202.2 INDICATOR RANGE			
(a) Allowable Range	Less than 10% opacity.	1.0 through 6.0 in. H_2O.	Performing and documenting all inspections and maintenance.
(b) Excursion	Greater than 10% opacity.	Less than 1.0 in. H_2O, or greater than 6.0 in. H_2O.	Not performing or documenting inspections or maintenance.
(c) Excursion Response	Correct VE within 1 hour, or conduct Method 9 VEO within 4 hours. Document inspection(s) & corrective action(s). Follow reporting requirements.	Document baghouse inspection(s) & corrective action(s). Follow reporting requirements.	Follow reporting requirements.
202.3 PERFORMANCE CRITERIA			
(a) Data Representativeness	VE checks are performed at baghouse stack outlet.	ΔP is measured from the inlet to outlet of each baghouse (or cell).	Internal and external baghouse inspections are conducted.
(b) Verification of Operation Status	Conducted as part of periodic inspections.	Conducted as part of periodic inspections.	Conducted as part of periodic inspections.
(c) QA/QC Practices and Criteria	Personnel conducting VE checks are Method 9 certified.	Annual manual calibration, or automatic electronic calibration for BPAC.	Qualified personnel perform inspections & maintenance.
(d) Monitoring Frequency	Daily.	Daily.	As specified in this Permit.
(e) Data Collection Procedures	Records will note time, date, and name of observer.	Records will note time, date, and name of the observer.	As specified in this Permit.
(f) Averaging Period	VE Checks: Instantaneous; Method 9: 6-min average	Instantaneous	