



MAJOR SOURCE OPERATING PERMIT

Permittee: Grede II, LLC – Brewton
Facility Name: Grede II, LLC – Brewton
Facility No.: 502-0011
Location: Brewton, Alabama

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

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

Issuance Date: TBD, 2022

Expiration Date: TBD, 2027

Alabama Department of Environmental Management

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1) (a) 5.</p>	<p>Rule 335-3-16-.02(6)</p>
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>Rule 335-3-16-.12(2)</p>
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>Rule 335-3-16-.05(e)</p>
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>Rule 335-3-16-.05(h)</p>
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>Rule 335-3-16-.05(i)</p>
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	<p>Rule 335-3-16-.05(j)</p>
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>Rule 335-3-16-.05(k)</p>
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>Rule 335-3-16-.07(a)</p>
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	<p>Rule 335-3-16-.07(b)</p>

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<ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; and (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); 	<p>Rule 335-3-16-.07(e)</p>

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<p>(4) Whether compliance has been continuous or intermittent; and</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source.</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="padding-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="padding-left: 80px;">and to:</p> <p style="padding-left: 40px;">Enforcement and Compliance Assurance Division EPA Region 4 Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p>	<p>Rule 335-3-16-.13(5)</p>

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(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14. <u>Additional Rules and Regulations</u>	
This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), <u>Code of Alabama 1975</u> , as amended
15. <u>Equipment Maintenance or Breakdown</u>	
(a) In case of shutdown of air pollution control equipment (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:	Rule 335-3-1-.07(1),(2)
(1) Identification of the specific facility to be taken out of service as well as its location and permit number;	
(2) The expected length of time that the air pollution control equipment will be out of service;	
(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
(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.	
(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	

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<p>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 will be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(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;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p>	<p>Rule 335-3-4-.02</p>

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<p>(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; or</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2</p>

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<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> <p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p>	<p>Rule 335-3-16-.05(c)3</p> <p>Rule 335-3-1-.05(3) Rule 335-3-1-.04(1)</p>

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<p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code r. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR Part 82</p>

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<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. 	<p>40 CFR Part 68</p>
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in 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.</p>	<p>Rule 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <ul style="list-style-type: none"> (a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may 	<p>Rule 335-3-4-.03</p>

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<p>discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.03.</p>	
<p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-5-.01.</p>	Rule 335-3-5-.01
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.</p>	Rule 335-3-4-.04
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	Rule 335-3-1-.05
<p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in</p>	40 CFR 64.7

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<p>continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and</p>	

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<p>records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p>	
<p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR 64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p>	<p>40 CFR 64.8</p>

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<p>B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <ul style="list-style-type: none"> (i) Improved preventive maintenance practices. (ii) Process operation changes. (iii) Appropriate improvements to control methods. (iv) Other steps appropriate to correct control performance. (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ul style="list-style-type: none"> A. Failed to address the cause of the control device performance problems; 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. 	

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<p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) General reporting requirements</p> <p>A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-16-.05(c)3.</p> <p>B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has</p>	<p>40 CFR 64.9</p>

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<p>been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) General recordkeeping requirements.</p> <p>A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p>	
<p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping 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</p>	<p>40 CFR 64.10</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but no limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	

Summary Page for Preheater A and B with Baghouse J

Permitted Operating
Schedule:

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
009A & 009B	Preheater A & B	PM (combined)	The lesser of: 1.5 lb/hr (3.7 tpy) and the allowable set by 3.59(P) ^{0.62}	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
009A	Preheater A (14,000 lb/hr)	PM or Total Metal HAP	0.005 gr/dscf 0.0004 gr/dscf	40 CFR 63.7690(a)(1)(i) 40 CFR 63.7690(a)(1)(ii)
009B	Preheater B (30,000 lb/hr)	PM or Total Metal HAP	0.005 gr/dscf 0.0004 gr/dscf	40 CFR 63.7690(a)(1)(i) 40 CFR 63.7690(a)(1)(ii)
009A	Preheater A (14,000 lb/hr)	VOHAP	20 ppmv*	40 CFR 63.7690(a)(9)
009B	Preheater B (30,000 lb/hr)	VOHAP	20 ppmv*	40 CFR 63.7690(a)(9)
009A	Preheater A (14,000 lb/hr)	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
009B	Preheater B (30,000 lb/hr)	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
Building	Preheater A & B	Opacity	20% (6-minute average) 27% (one 6-minute average per hour)	40 CFR 63.7690(a)(7)

*Only applies if the facility chooses to comply with these limits instead of the requirements in 40 CFR 63.7700(e).

Provisos for Preheater A and B with Baghouse J

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04
5. These sources have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14.04 (Anti-PSD)
6. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, <i>"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"</i> .	Rule 335-3-11-.06(108) 40 CFR 63.7682(b)
7. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR 63.7760
8. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate emissions from the Preheater A and B baghouse stack shall not exceed the lesser of 1.5 lb/hr (3.7 TPY) <u>or</u> the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
2. For each preheater, no emissions shall be discharged into the atmosphere that exceed the limit for particulate matter of 0.005 grains per dry standard cubic foot (gr/dscf) or, alternatively, the limit for total metal HAP of 0.0004 gr/dscf.	40 CFR 63.7690(a)(1) 40 CFR 63.7743(a)(1)

Federally Enforceable Provisos	Regulations
3. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)
4. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
5. For each building structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7) 40 CFR 63.7743(a)(7)
6. For each segregated scrap storage area, bin, or pile, the facility must either comply with the certification requirements in 40 CFR 63.7700(b) or prepare and implement a plan for the selection and inspection of scrap according to the requirements in 40 CFR 63.7700(c). The facility may have certain scrap subject to 40 CFR 63.7700(b) and other scrap subject to 40 CFR 63.7700(c) provided the scrap remains segregated until charge make-up.	40 CFR 63.7700(a)
7. Each preheater must meet either the following requirements or the VOHAP emission limit in 40 CFR 63.7690(a)(9):	40 CFR 63.7700(e)
(a) The facility must operate and maintain a gas-fired preheater where the flame directly contacts the scrap charged; or	
(b) The facility must charge only material that is subject to and in compliance with the scrap certification requirement in 40 CFR 63.7700(b).	
8. As an alternative to the work practice standard in Emission Standard No. 7, each preheater must not discharge emissions of VOHAP to the atmosphere that exceed 20 ppmv.	40 CFR 63.7690(a)(9)
(a) If the facility elects to comply with the VOHAP limit above, the facility must install, operate, and maintain a capture and collection system.	40 CFR 63.7690(b)(1)
i. Each capture and collection system must meet accepted engineering standards.	

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> ii. The facility must operate each capture system at or above the lowest value or settings established as operating limits in your operation and maintenance plan. 	
9. The facility must 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.	40 CFR 63.7710(a)
10. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emissions source subject to a PM, metal HAP, TEA, or VOHAP emissions limit in 40 CFR 63.7690(a) or the work practice standards in 40 CFR 63.7700(g). Each plan must contain the elements described in 40 CFR 63.7710(b)(1) through (6), as applicable.	40 CFR 63.7710(b)
Compliance and Performance Test Methods and Procedures	
1. Method 5, 5B, 5D, 5F, or 5I, as applicable, of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter.	Rule 335-3-1-.05 40 CFR 63.7732(b)(1)(v)
2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05 40 CFR 63.7732(d)(1)
3. Method 29 of 40 CFR Part 60, Appendix A-8, shall be used in the determination of total metal HAP.	40 CFR 63.7732(c)(1)(v)
4. Method 18 of 40 CFR Part 60, Appendix A-8, shall be used in the determination of VOHAP. Alternatively, Method 25 of 40 CFR Part 60, Appendix A-7 may be used to determine the concentration of total gaseous nonmethane organics (TGNMO) or Method 25A may be used 40 CFR Part 60, Appendix A-7 to determine the concentration of total organic compounds (TOC), using hexane as the calibration gas.	40 CFR 63.7732(e)(1)(v)
5. The facility must meet the general compliance requirements of 40 CFR 63.7720(a) through (c), as applicable.	40 CFR 63.7720(a-c)
6. The facility must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP, VOHAP, and TEA emissions limitations in 40 CFR 63.7690 no less frequently than every 5 years and each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR 63.7731(a)

Federally Enforceable Provisos	Regulations
7. The facility must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7) no less frequently than once every 6 months.	40 CFR 63.7731(b)
8. The facility must conduct each performance test according to the requirements in 40 CFR 63.7732(b) through (i). Each performance test must be conducted under conditions representative of normal operations. Normal operating conditions exclude periods of startup and shutdown. The facility may not conduct performance tests during periods of malfunction. The facility must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the facility shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.	40 CFR 63.7732(a)
9. For each capture system subject to operating limits in 40 CFR 63.7690(b)(1)(ii) for VOHAP, the facility must establish site-specific operating limits in its operation and maintenance plan according to the procedures in 40 CFR 63.7733(a)(1) through (3).	40 CFR 63.7733(a)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a visual check, once per day, of the baghouse discharge vent associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are noted at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1
3. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-16-.05(c)1
(a) Once per week check hopper, fan, and cleaning cycle for proper operation.	
(b) Once per week conduct a visual check of all hoods and ductwork.	
(c) Record any repairs or observed problems.	

Federally Enforceable Provisos	Regulations
<p>4. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. <p>5. For each capture system subject to an operating limit in 40 CFR 63.7690(b)(1) for VOHAP, the facility must install, operate, and maintain a CPMS according to the requirements in 40 CFR 63.7741(a) and the requirements in 40 CFR 63.7740(a)(1) and (2).</p> <p>6. For each baghouse, the facility must at all times monitor the relative change in PM loadings using a leak detection system according to the requirements in 40 CFR 63.7741(b).</p> <p>7. For each baghouse, regardless of type, that is applied to meet any PM or total metal HAP emissions limitation, the facility must conduct inspections at their specified frequencies according to the requirements specified below:</p> <ul style="list-style-type: none"> (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (e) Check bag cleaning mechanisms for proper functioning through monthly visual inspections or equivalent means. (f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouse to ensure that bags are not kinked (knead or bent) or lying on their sides. The facility does not have make this check for shaker-type baghouse using self-tensioning (spring-loaded) devices. 	<p>Rule 335-3-16-.05(c)1</p> <p>40 CFR 63.7740(a)</p> <p>40 CFR 63.7740(b)</p> <p>40 CFR 63.7740(c)</p>

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<p>(g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior.</p> <p>(h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.</p> <p>8. If applicable, the facility must operate each CPMS used to meet the requirements of this subpart according to the requirements specified in 40 CFR 63.7741(f)(1) through (3).</p> <p>9. The facility must monitor and collect data according to the requirements of 40 CFR 63.7742(a) through (c), as applicable. This includes monitoring malfunctions, associated repairs, and required quality assurance or control activities.</p> <p>10. The facility must demonstrate continuous compliance for each capture system subject to an operating limit in 40 CFR 63.7690(b)(1) for VOHAP by meeting the requirements in 40 CFR 63.7743(b)(1) and (2).</p> <p>11. The facility shall inspect and maintain each baghouse according to the requirements of 40 CFR 63.7740(c)(1) through (8) and record all information needed to document conformance with these requirements.</p> <p>If the baghouse is equipped with a bag leak detection system, the facility shall maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken, and the date on which corrective action was completed.</p> <p>12. The facility must operate and maintain each gas-fired preheater such that the flame directly contacts the scrap charged to demonstrate continuous compliance with the requirement 40 CFR 63.7700(e)(1).</p> <p>13. The facility must demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63.7710 by complying with the requirements in 40 CFR 63.7745(a)(1) through (5), as applicable.</p> <p>Recordkeeping and Reporting Requirements</p> <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p>	<p>40 CFR 63.7741(f)</p> <p>40 CFR 63.7742</p> <p>40 CFR 63.7743(b)</p> <p>40 CFR 63.7743(c)</p> <p>40 CFR 63.7744(c)</p> <p>40 CFR 63.7745(a)</p> <p>Rule 335-3-16-.05(c)2</p>

Federally Enforceable Provisos	Regulations
2. The facility shall maintain a record of all visual checks and Method 9 observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A-4, Method 9, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action take will be documented in a logbook.	Rule 335-3-16-.05(c)2
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
7. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR 63.7743(c)(2)
8. The facility must maintain records that document continuous compliance with the certification requirements in 40 CFR 63.7700(b) or with the procedures in the facility scrap selection and inspection plan required in 40 CFR 63.7700(c). The facility records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.	40 CFR 63.7744(a)
9. The facility must keep records to document that each scrap preheater charges only material that is subject to and in compliance with the scrap certification requirements in 40 CFR 63.7700(b).	40 CFR 63.7744(c)

Federally Enforceable Provisos	Regulations
10. The facility must maintain a current copy of the operation and maintenance plans required by 40 CFR 63.7710(b) onsite and available for inspection upon request. The facility must keep the plans for the life of the iron and steel foundry or until the iron and steel foundry is longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR 63.7745(b)
11. The facility must report each instance in which it did not meet each emissions limitation in 40 CFR 63.7690 (including each operating limit) that applies. This requirement includes periods of startup, shutdown, and malfunction. The facility also must report each instance in which it did not meet each work practice standard in 40 CFR 63.7700 and each operation and maintenance requirement of 40 CFR 63.7710 that applies. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63, Subpart EEEEE. These deviations must be reported according to the requirements of 40 CFR 63.7751.	40 CFR 63.7746(a)
12. The facility shall comply with the notification requirements in 40 CFR 63.7750(a) through (e), as applicable.	40 CFR 63.7750
13. The facility shall comply with the reporting requirements in 40 CFR 63.7751(a) through (i), as applicable.	40 CFR 63.7751
(a) Semiannual compliance reports shall be submitted to the Department and the EPA according to the schedule in 40 CFR 63.7751(a).	
i. All reports to the EPA shall be submitted 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/).	
(b) Semiannual compliance reports shall include all applicable information in 40 CFR 63.7751(b).	
(c) Performance test results shall be submitted to the Department and the EPA within 60 days of completing the test(s) according to the requirements of 40 CFR 63.7751(f).	
14. The facility shall comply with the recordkeeping requirements in 40 CFR 63.7752(a) through (e), and 40 CFR 63.7753(a) through (c), as applicable.	40 CFR 63.7752 40 CFR 63.7753

Summary Page for Four (4) Electric Induction Furnaces with Baghouse K and Nodularization (Metal treatment) with Baghouse G

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Four (4) Electric Induction Furnaces with Baghouse K (35.4 tph)	PM (combined)	The lesser of: 0.46 lb/ton, 19.4 lb/hr or the allowable set by 17.34(P) ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
003	Nodularization (Metal Treatment) Process with Baghouse G	PM	The lesser of: 0.26 lb/ton, 5.8 lb/hr or the allowable set by 17.34(P) ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
002	Four (4) Electric Induction Furnaces with Baghouse K (35.4 tph)	PM or Total Metal HAP	0.005 gr/dscf 0.0004 gr/dscf	40 CFR 63.7690(a)(1)(i) 40 CFR 63.7690(a)(1)(ii)
002 & 003	Four (4) Electric Induction Furnaces with Baghouse K (35.4 tph) and Nodularization (Metal Treatment) Process with Baghouse G	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
Building	Four (4) Electric Induction Furnaces with Baghouse K (35.4 tph) and Nodularization (Metal Treatment) Process with Baghouse G	Opacity	20% (one 6-minute average per hour) 27% (6-minute average)	40 CFR 63.7690(a)(7)

Note: All Four (4) Electric Induction Furnaces shares a baghouse with the Two (2) Pouring Lines.

Provisos for Four (4) Electric Induction Furnaces with Baghouse K and
Nodularization (Metal Treatment) Process with Baghouse G

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14.04 (Anti-PSD)
6. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, <i>"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"</i> .	Rule 335-3-11-.06(108) 40 CFR 63.7682(b)
7. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR 63.7760, Table 1
8. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Four (4) Electric Induction Furnaces baghouse stack shall not exceed the lesser of the Anti-PSD combined limit of 0.46 lb/ton and 19.4 lb/hr <u>or</u> the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)

Federally Enforceable Provisos	Regulations
2. Particulate matter emissions from the Nodularization (Metal Treatment) Process baghouse stack shall not exceed the lesser of 0.26 lb/ton and 5.8 lb/hr <u>or</u> the allowable as set by Rule 335-3-4-.04.	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
3. The production of molten iron by the facility's Four Electric Induction Furnaces shall not exceed 180,000 tons during any consecutive 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
4. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)
5. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
6. For each electric induction furnace, no emissions shall be discharged into the atmosphere that exceed either the limit for particulate matter of 0.005 gr/dscf or, alternatively, the limit for total metal HAP of 0.0004 gr/dscf.	40 CFR 63.7690(a)(1) 40 CFR 63.7743(a)(1)
7. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7) 40 CFR 63.7743(a)(7)
8. The facility must 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.	40 CFR 63.7710(a)
9. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emissions source subject to a PM, metal HAP, TEA, or VOHAP emissions limit in 40 CFR 63.7690(a) or the work practice standards in 40 CFR 63.7700(g). Each plan must contain the elements described in 40 CFR 63.7710(b)(1) through (6), as applicable.	40 CFR 63.7710(b)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5, 5B, 5D, 5F, or 5I, as applicable, of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter.	Rule 335-3-1-.05 40 CFR 63.7732(b)(1)(v)
2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05 40 CFR 63.7732(d)(1)
3. Method 29 of 40 CFR Part 60, Appendix A-8, shall be used in the determination of total metal HAP.	40 CFR 63.7732(c)(1)(v)
4. The facility must meet the general compliance requirements of 40 CFR 63.7720(a) through (c), as applicable.	40 CFR 63.7720(a-c)
5. The facility must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP, VOHAP, and TEA emissions limitations in 40 CFR 63.7690 no less frequently than every 5 years and each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR 63.7731(a)
6. The facility must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7) no less frequently than once every 6 months.	40 CFR 63.7731(b)
7. The facility must conduct each performance test according to the requirements in 40 CFR 63.7732(b) through (i). Each performance test must be conducted under conditions representative of normal operations. Normal operating conditions exclude periods of startup and shutdown. The facility may not conduct performance tests during periods of malfunction. The facility must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the facility shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.	40 CFR 63.7732(a)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a daily visual check of the building(s) containing these units. This check shall be performed by a person familiar with Method 9. If instantaneous visible emissions estimated in excess of 15% opacity are observed at	Rule 335-3-16-.05(c)1

Federally Enforceable Provisos	Regulations
<p>any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p>	
<p>3. The facility shall perform a visual check, at least once per day, of the stacks associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p>	Rule 335-3-16-.05(c)1
<p>4. The facility shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed:</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan, and cleaning cycle for proper operation. (b) Once per week conduct a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05(c)1
<p>5. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05(c)1
<p>6. For each baghouse, the facility must at all times monitor the relative change in PM loadings using a leak detection system according to the requirements in 40 CFR 63.7741(b).</p>	40 CFR 63.7740(b)
<p>7. For each baghouse, regardless of type, that is applied to meet any PM or total metal HAP emissions limitation, the facility must conduct inspections at their specified frequencies according to the requirements specified below:</p>	40 CFR 63.7740(c)

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (e) Check bag cleaning mechanisms for proper functioning through monthly visual inspections or equivalent means. (f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouse to ensure that bags are not kinked (knead or bent) or lying on their sides. The facility does not have make this check for shaker-type baghouse using self-tensioning (spring-loaded) devices. (g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior. (h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means. 	
<p>8. If applicable, the facility must operate each CPMS used to meet the requirements of this subpart according to the requirements specified in 40 CFR 63.7741(f)(1) through (3).</p>	<p>40 CFR 63.7741(f)</p>
<p>9. The facility must monitor and collect data according to the requirements of 40 CFR 63.7742(a) through (c), as applicable. This includes monitoring malfunctions, associated repairs, and required quality assurance or control activities.</p>	<p>40 CFR 63.7742</p>

Federally Enforceable Provisos	Regulations
<p>10. The facility shall inspect and maintain each baghouse according to the requirements of 40 CFR 63.7740(c)(1) through (8) and record all information needed to document conformance with these requirements.</p> <p>If the baghouse is equipped with a bag leak detection system, the facility shall maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken, and the date on which corrective action was completed.</p>	40 CFR 63.7743(c)
<p>11. The facility must demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63.7710 by complying with the requirements in 40 CFR 63.7745(a)(1) through (5), as applicable.</p>	40 CFR 63.7745(a)
Recordkeeping and Reporting Requirements	
<p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p>	Rule 335-3-16-.05(c)2
<p>2. The facility shall maintain a record of all Method 9 observations performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.</p>	Rule 335-3-16-.05(c)2 40 CFR Part 64
<p>3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A-4, Method 9, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05(c)2
<p>4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.</p>	Rule 335-3-16-.05(c)2 40 CFR Part 64
<p>5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.</p>	Rule 335-3-16-.05(c)2 40 CFR Part 64
<p>6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.</p>	Rule 335-3-16-.05(c)2 40 CFR Part 64

Federally Enforceable Provisos	Regulations
7. The facility shall maintain a record of total iron production. The total iron production shall be kept in a form of a monthly and 12-month rolling total.	Rule 335-3-16-.05(c)2
8. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR 63.7743(c)(2)
9. The facility must maintain a current copy of the operation and maintenance plans required by 40 CFR 63.7710(b) onsite and available for inspection upon request. The facility must keep the plans for the life of the iron and steel foundry or until the iron and steel foundry is longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR 63.7745(b)
10. The facility must report each instance in which it did not meet each emissions limitation in 40 CFR 63.7690 (including each operating limit) that applies. This requirement includes periods of startup, shutdown, and malfunction. The facility also must report each instance in which it did not meet each work practice standard in 40 CFR 63.7700 and each operation and maintenance requirement of 40 CFR 63.7710 that applies. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63, Subpart EEEEE. These deviations must be reported according to the requirements of 40 CFR 63.7751.	40 CFR 63.7746(a)
11. The facility shall comply with the notification requirements in 40 CFR 63.7750(a) through (e), as applicable.	40 CFR 63.7750
12. The facility shall comply with the reporting requirements in 40 CFR 63.7751(a) through (i), as applicable.	40 CFR 63.7751
(a) Semiannual compliance reports shall be submitted to the Department and the EPA according to the schedule in 40 CFR 63.7751(a).	
i. All reports to the EPA shall be submitted 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/).	
(b) Semiannual compliance reports shall include all applicable information in 40 CFR 63.7751(b).	

Federally Enforceable Provisos	Regulations
(c) Performance test results shall be submitted to the Department and the EPA within 60 days of completing the test(s) according to the requirements of 40 CFR 63.7751(f).	
13. The facility shall comply with the recordkeeping requirements in 40 CFR 63.7752(a) through (e), and 40 CFR 63.7753(a) through (c), as applicable.	40 CFR 63.7752 40 CFR 63.7753

Summary Page for Two (2) Pouring Lines with Shared Baghouse K and Cooling
Lines B & C with Shared Baghouses BB & CC, and Cooling Line AA with Pressure
Pour with Shared Baghouse BB

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Two (2) Pouring Lines with Baghouse K (when EIF(s) are not operating)	PM	The lesser of: 0.50 lb/ton, 11.03 lb/hr (27.14 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
002	Two (2) Pouring Lines with Baghouse K (when EIF(s) are operating)	PM	The lesser of: 0.46 lb/ton, 19.4 lb/hr or the allowable set by $17.34(P)^{0.16}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
002	Two (2) Pouring Lines with Baghouse K (when EIF(s) are not operating)	PM or Total Metal HAP	0.010 gr/dscf 0.0008 gr/dscf	40 CFR 63.7690(a)(5)(i) 40 CFR 63.7690(a)(5)(ii)
002	Two (2) Pouring Lines with Baghouse K (when EIF(s) are operating)	PM or Total Metal HAP	0.005 gr/dscf 0.0004 gr/dscf	40 CFR 63.7690(a)(1)(i) 40 CFR 63.7690(a)(1)(ii)
005	DISA Cooling Lines B & C ¹ with Roof Vents ²	PM	The lesser of: 0.74 lb/ton, 14.0 lb/hr (34.5 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04

006 and 007	DISA Cooling Line B, DISA Cooling Line AA & Pressure Pour with Baghouse BB, and DISA Cooling Line C with Baghouse CC	PM	The lesser of: 0.16 lb/ton, 3.4 lb/hr (14.9 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
002, 005, 006, and 007	Two Pouring Lines with Baghouse K, DISA Cooling Lines B & C with Roof Vents, DISA Cooling Line B and DISA Cooling Line AA & Pressure Pour with Baghouse BB, and DISA Cooling Line C with Baghouse CC	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
Building	Two (2) Pouring Lines with Baghouse K	Opacity	20% (6-minute average) 27% (one 6-minute average per hour)	40 CFR 63.7690(a)(7)

¹DISA Cooling Line C shares a baghouse with the Sand Cooling & Foundry Sand System. The DISA Cooling Line C must meet the Anti-PSD PM limit of the Sand Cooling & Foundry Sand System while operating simultaneously with the Sand Foundry and/or Foundry System.

²A portion of the cooling emissions are captured by Roof Vents and a portion of the cooling emissions are captured by the shared baghouses

Provisos for Two (2) Pouring Lines with Shared Baghouse K and Cooling Lines B
& C with Shared Baghouses BB & CC, and Cooling Line AA with Pressure Pour
with Shared Baghouse BB

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. The Two (2) Pouring Lines with shared Baghouse K have a combined enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
6. The Cooling Lines B and C with roof vents have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
7. The Cooling Lines B and DISA Cooling Line AA with Pressure Pour with shared Baghouse BB have a combined enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
8. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, <i>"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"</i> .	Rule 335-3-11-.06(108) 40 CFR 63.7682(b)
9. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR 63.7760, Table 1

Federally Enforceable Provisos	Regulations
10. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Two (2) Pouring Lines with shared Baghouse K shall not exceed the lesser of the combined limit of 0.50 lb/ton and 11.03 lb/hr (27.14 tpy) <u>or</u> the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
Note: Since the Two (2) Pouring Lines and the Four (4) Electric Induction Furnaces share the same baghouse, the pouring lines must comply with the more stringent PM limits that apply to the Four (4) Electric Induction Furnaces when the pouring lines and furnaces are operating simultaneously.	
2. Particulate matter emissions from the Cooling Lines B & C roof vents shall not exceed the lesser of 0.74 lb/ton and 14.0 lb/hr (34.5 tpy) <u>or</u> the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
3. Particulate matter emissions from the Cooling Lines B and C and DISA Cooling Line AA with 250 Pressure Pour with shared baghouses shall not exceed the lesser of the combined limit of 0.16 lb/ton and 3.40 lb/hr (14.90 tpy) <u>or</u> the allowable as set by Rule 335-3-4-.04.	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
Note: Since the Cooling Line C and Sand Cooling & Foundry System share the same baghouse (CC), Cooling Line C must comply with the more stringent PM limits that apply to the Sand Cooling & Foundry Sand System when both are operating simultaneously.	
4. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)
5. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)

Federally Enforceable Provisos	Regulations
<p>6. For each pouring station, no emissions shall be discharged into the atmosphere that exceed either the limit for particulate matter of 0.010 gr/dscf or, alternatively, the limit of for total metal HAP of 0.0008 gr/dscf.</p> <p>Note: Since the Two (2) Pouring Lines and the Four (4) Electric Induction Furnaces share the same baghouse, the pouring lines must comply with the more stringent PM limits set for the Four (4) Electric Induction Furnaces in 40 CFR 63.7690(a)(1)(i) and (ii) when both are operating simultaneously.</p>	<p>40 CFR 63.7690(a)(5)</p> <p>40 CFR 63.7743(a)(5)</p>
<p>7. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.</p>	<p>40 CFR 63.7690(a)(7)</p> <p>40 CFR 63.7743(a)(7)</p>
<p>8. The facility must 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.</p>	<p>40 CFR 63.7710(a)</p>
<p>9. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emissions source subject to a PM, metal HAP, TEA, or VOHAP emissions limit in 40 CFR 63.7690(a) or the work practice standards in 40 CFR 63.7700(g). Each plan must contain the elements described in 40 CFR 63.7710(b)(1) through (6), as applicable.</p>	<p>40 CFR 63.7710(b)</p>
Compliance and Performance Test Methods and Procedures	
<p>1. Method 5, 5B, 5D, 5F, or 5I, as applicable, of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter.</p>	<p>Rule 335-3-1-.05</p> <p>40 CFR 63.7732(b)(1)(v)</p>
<p>2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.</p>	<p>Rule 335-3-1-.05</p> <p>40 CFR 63.7732(d)(1)</p>
<p>3. Method 29 of 40 CFR Part 60, Appendix A shall be used in the determination of total metal HAP.</p>	<p>Rule 335-3-1-.05</p> <p>40 CFR 63.7732(c)(1)(v)</p>
<p>4. The facility must meet the general compliance requirements of 40 CFR 63.7720(a) through (c), as applicable.</p>	<p>40 CFR 63.7720(a-c)</p>

Federally Enforceable Provisos	Regulations
5. The facility must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP, VOHAP, and TEA emissions limitations in 40 CFR 63.7690 no less frequently than every 5 years and each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR 63.7731(a)
6. The facility must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7) no less frequently than once every 6 months.	40 CFR 63.7731(b)
7. The facility must conduct each performance test according to the requirements in 40 CFR 63.7732(b) through (i). Each performance test must be conducted under conditions representative of normal operations. Normal operating conditions exclude periods of startup and shutdown. The facility may not conduct performance tests during periods of malfunction. The facility must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the facility shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.	40 CFR 63.7732(a)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a daily visual check of the building(s) containing these units. This check shall be performed by a person familiar with Method 9. If instantaneous visible emissions estimated in excess of 15% opacity are observed at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1
3. The facility shall perform a visual check, at least once per day, of the stacks associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1

Federally Enforceable Provisos	Regulations
<p>4. The facility shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed:</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan, and cleaning cycle for proper operation. (b) Once per week conduct a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05(c)1
<p>5. The facility shall perform an annual inspection of the baghouses to verify proper operation. The following activities shall be performed:</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05(c)1
<p>6. For each baghouse, the facility must at all times monitor the relative change in PM loadings using a leak detection system according to the requirements in 40 CFR 63.7741(b).</p>	40 CFR 63.7740(b)
<p>7. For each baghouse, regardless of type, that is applied to meet any PM or total metal HAP emissions limitation, the facility must conduct inspections at their specified frequencies according to the requirements specified below:</p> <ul style="list-style-type: none"> (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. 	40 CFR 63.7740(c)

Federally Enforceable Provisos	Regulations
<p>(e) Check bag cleaning mechanisms for proper functioning through monthly visual inspections or equivalent means.</p> <p>(f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouse to ensure that bags are not kinked (knead or bent) or lying on their sides. The facility does not have make this check for shaker-type baghouse using self-tensioning (spring-loaded) devices.</p> <p>(g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior.</p> <p>(h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.</p>	
8. If applicable, the facility must operate each CPMS used to meet the requirements of this subpart according to the requirements specified in 40 CFR 63.7741(f)(1) through (3).	40 CFR 63.7741(f)
9. The facility must monitor and collect data according to the requirements of 40 CFR 63.7742(a) through (c), as applicable. This includes monitoring malfunctions, associated repairs, and required quality assurance or control activities.	40 CFR 63.7742
10. The facility shall inspect and maintain each baghouse according to the requirements of 40 CFR 63.7740(c)(1) through (8) and record all information needed to document conformance with these requirements.	40 CFR 63.7743(c)
If the baghouse is equipped with a bag leak detection system, the facility shall maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken, and the date on which corrective action was completed.	
11. The facility must demonstrate continuous compliance with the operation and maintenance requirements of 40 CFR 63.7710 by complying with the requirements in 40 CFR 63.7745(a)(1) through (5), as applicable.	40 CFR 63.7745(a)
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)2

Federally Enforceable Provisos	Regulations
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A-4, Method 9, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action take will be documented in a logbook.	Rule 335-3-16-.05(c)2
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
7. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR 63.7743(c)(2)
8. The facility must maintain a current copy of the operation and maintenance plans required by 40 CFR 63.7710(b) onsite and available for inspection upon request. The facility must keep the plans for the life of the iron and steel foundry or until the iron and steel foundry is longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR 63.7745(b)

Federally Enforceable Provisos	Regulations
9. The facility must report each instance in which it did not meet each emissions limitation in 40 CFR 63.7690 (including each operating limit) that applies. This requirement includes periods of startup, shutdown, and malfunction. The facility also must report each instance in which it did not meet each work practice standard in 40 CFR 63.7700 and each operation and maintenance requirement of 40 CFR 63.7710 that applies. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63, Subpart EEEEE. These deviations must be reported according to the requirements of 40 CFR 63.7751.	40 CFR 63.7746(a)
10. The facility shall comply with the notification requirements in 40 CFR 63.7750(a) through (e), as applicable.	40 CFR 63.7750
11. The facility shall comply with the reporting requirements in 40 CFR 63.7751(a) through (i), as applicable.	40 CFR 63.7751
(a) Semiannual compliance reports shall be submitted to the Department and the EPA according to the schedule in 40 CFR 63.7751(a).	
i. All reports to the EPA shall be submitted 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/).	
(b) Semiannual compliance reports shall include all applicable information in 40 CFR 63.7751(b).	
(c) Performance test results shall be submitted to the Department and the EPA within 60 days of completing the test(s) according to the requirements of 40 CFR 63.7751(f).	
12. The facility shall comply with the recordkeeping requirements in 40 CFR 63.7752(a) through (e), and 40 CFR 63.7753(a) through (c), as applicable.	40 CFR 63.7752 40 CFR 63.7753

Summary Page for Sand Cooling and Foundry Sand System with Shared
Baghouse CC

Permitted Operating
Schedule:

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	Sand Cooling and Foundry Sand System	PM	The lesser of: 3.0 lb/hr or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
007	Sand Cooling and Foundry Sand System	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
Building	Sand Cooling and Foundry Sand System	Opacity	20% (6-minute average) 27% (one 6-minute average per hour)	40 CFR 63.7690(a)(7)

Note: The Sand Cooling and Foundry Sand System shares a baghouse with DISA Cooling C.

Provisos for Sand Cooling and Foundry Sand System with Shared Baghouse CC

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. These sources have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14.04 (Anti-PSD)
6. The building housing these sources is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, <i>"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"</i> .	Rule 335-3-11-.06(108) 40 CFR 63.7682(b)
7. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR 63.7760, Table 1
8. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Sand Cooler and Foundry Sand System with Shared Baghouse CC shall not exceed the lesser of 3.0 lb/hr or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)

Federally Enforceable Provisos	Regulations
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7) 40 CFR 63.7743(a)(7)
4. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05 40 CFR 63.7732(d)(1)
3. The facility must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7) no less frequently than once every 6 months.	40 CFR 63.7731(b)
4. The facility must conduct each performance test according to the requirements in 40 CFR 63.7732(b) through (i). Each performance test must be conducted under conditions representative of normal operations. Normal operating conditions exclude periods of startup and shutdown. The facility may not conduct performance tests during periods of malfunction. The facility must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the facility shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.	40 CFR 63.7732(a)
Emission Monitoring	

Federally Enforceable Provisos	Regulations
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall monitor and record the pressure drop across the baghouses at least once per day. (See Appendix CAM Plan)	Rule 335-3-16-.05(c)1
3. The facility shall perform a visual check, at least once per day, of the stacks associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1
4. The facility shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed. <ul style="list-style-type: none"> (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week conduct a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05(c)1
5. The facility shall perform an annual inspection of the baghouses to verify proper operation. The following activities shall be performed. <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or problems observed. 	Rule 335-3-16-.05(c)1
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)2
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64

Federally Enforceable Provisos	Regulations
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A-4, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-16-.05(c)2
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
7. The facility must report each instance in which it did not meet each emissions limitation in 40 CFR 63.7690 (including each operating limit) that applies. This requirement includes periods of startup, shutdown, and malfunction. The facility also must report each instance in which it did not meet each work practice standard in 40 CFR 63.7700 and each operation and maintenance requirement of 40 CFR 63.7710 that applies. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63, Subpart EEEEE. These deviations must be reported according to the requirements of 40 CFR 63.7751.	40 CFR 63.7746(a)
8. The facility shall comply with the notification requirements in 40 CFR 63.7750(a) through (e), as applicable.	40 CFR 63.7750
9. The facility shall comply with the reporting requirements in 40 CFR 63.7751(a) through (i), as applicable.	40 CFR 63.7751
(a) Semiannual compliance reports shall be submitted to the Department and the EPA according to the schedule in 40 CFR 63.7751(a).	
i. All reports to the EPA shall be submitted 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/).	

Federally Enforceable Provisos	Regulations
<p>(b) Semiannual compliance reports shall include all applicable information in 40 CFR 63.7751(b).</p> <p>(c) Performance test results shall be submitted to the Department and the EPA within 60 days of completing the test(s) according to the requirements of 40 CFR 63.7751(f).</p> <p>10. The facility shall comply with the recordkeeping requirements in 40 CFR 63.7752(a) through (e), and 40 CFR 63.7753(a) through (c), as applicable.</p>	<p>40 CFR 63.7752</p> <p>40 CFR 63.7753</p>

Summary Page for Two (2) Rotary Shakeouts with Shared Baghouse I

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	Two Rotary Shakeouts	PM	The lesser of: 3.4 lb/hr or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
008	Two Rotary Shakeouts	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)

Provisos for Two (2) Rotary Shakeouts with Shared Baghouse I

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. These sources have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
6. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Two (2) Rotary Shakeouts with Shared Baghouse I shall not exceed the lesser of the combined limit of 3.4 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)

Federally Enforceable Provisos	Regulations
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a visual check, at least once per day, of the stacks associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1
3. The permittee shall monitor and record the pressure drop across the baghouses at least once per day.	Rule 335-3-16-.05(c)1
4. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-16-.05(c)1
(a) Once per week check hopper, fan, and cleaning cycle for proper operation.	
(b) Once per week conduct a visual check of all hoods and ductwork.	
(c) Record any repairs or problems observed.	
5. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-16-.05(c)1
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	

Federally Enforceable Provisos	Regulations
<p>(b) Once per year perform an internal inspection of the baghouse hoppers.</p> <p>(c) Record any repairs or problems observed.</p> <p>6. All dust handling systems (screw conveyors, silos, dumpsters, etc.) shall be inspected once per day to verify proper operation. Any repairs or observed problems shall be recorded.</p>	<p>Rule 335-3-16-.05(c)1</p>
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)2
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-16-.05(c)2
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64

Summary Page for Core Making Process with Packed Bed Scrubber

Permitted Operating
Schedule:

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
012	Core Making Process with Packed Bed Scrubber	PM	The lesser of: 3.3 lb/hr (14.9 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
012	Core Making Process with Packed Bed Scrubber	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)
Building	Core Making Process with Packed Bed Scrubber	Opacity	20% (one 6-minute average per hour) 27% (6-minute average)	40 CFR 63.7690(a)(7)

Provisos for Core Making Process with Packed Bed Scrubber

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. These sources have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
6. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, <i>"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"</i> .	Rule 335-3-11-.06(108) 40 CFR 63.7682(b)
7. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR 63.7760
Emission Standards	
1. Particulate matter emissions from the Core Making Process with Packed Bed Scrubber shall not exceed the lesser of 3.3 lb/hr (14.9 tpy) or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air gas-borne material leaving the building or	Rule 335-3-4-.02(3)

Federally Enforceable Provisos	Regulations
equipment are treated by removal or destruction of air contaminants be discharge to the open air.	
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
4. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR 63.7690(a)(7) 40 CFR 63.7743(a)(7)
5. For each core making line, the facility must use a binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation as determined by the Material Safety Data Sheet.	40 CFR 63.7700(d)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05 40 CFR 63.7732(d)(1)
3. The facility must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7) no less frequently than once every 6 months.	40 CFR 63.7731(b)
4. The facility must conduct each performance test according to the requirements in 40 CFR 63.7732(b) through (i). Each performance test must be conducted under conditions representative of normal operations. Normal operating conditions exclude periods of startup and shutdown. The facility may not conduct performance tests during periods of malfunction. The facility must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the facility shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.	40 CFR 63.7732(a)
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of the stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed at any	Rule 335-3-16-.05(c)1

Federally Enforceable Provisos	Regulations
<p>time and not corrected within a 1 hour period, then a 30-minute Method 9 observation must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p>	
<p>2. The facility shall monitor and record the scrubber column differential pressure and scrubbing solution pH once per day.</p>	Rule 335-3-16-.05(c)1
<p>3. The permittee shall perform a weekly inspection of the packed bed scrubber to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per week check the scrubber, blower, and scrubbing solution pump for proper operation.</p> <p>(b) Once per week conduct a visual check of all hoods and ductwork.</p> <p>(c) Record any repairs or observed problems.</p>	Rule 335-3-16-.05(c)1
<p>4. The facility shall perform an annual inspection of the packed bed scrubber to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per year inspect scrubber structure, access doors, and door seals.</p> <p>(b) Once per year perform an internal inspection of the scrubber column packing, scrubber blower, and scrubber solution pump.</p> <p>(c) Record any repairs or observed problems.</p>	Rule 335-3-16-.05(c)1
Recordkeeping and Reporting Requirements	
<p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p>	Rule 335-3-16-.05(c)2
<p>2. The facility shall maintain a record of all differential pressure readings, solution pH readings, and inspections, to include visible observations and Method 9 observations performed to satisfy the periodic monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.</p>	Rule 335-3-16-.05(c)2
<p>3. If a visible emissions observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05(c)2

Federally Enforceable Provisos	Regulations
4. The facility must keep records of the chemical composition of all catalyst binder formulations applied in each core making line at a new or existing iron and steel foundry to demonstrate continuous compliance with the requirements in 40 CFR 63.7700(d).	40 CFR 63.7744(b)
5. The facility must report each instance in which it did not meet each emissions limitation in 40 CFR 63.7690 (including each operating limit) that applies. This requirement includes periods of startup, shutdown, and malfunction. The facility also must report each instance in which it did not meet each work practice standard in 40 CFR 63.7700 and each operation and maintenance requirement of 40 CFR 63.7710 that applies. These instances are deviations from the emissions limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63, Subpart EEEEE. These deviations must be reported according to the requirements of 40 CFR 63.7751.	40 CFR 63.7746(a)
6. The facility shall comply with the notification requirements in 40 CFR 63.7750(a) through (e), as applicable.	40 CFR 63.7750
7. The facility shall comply with the reporting requirements in 40 CFR 63.7751(a) through (i), as applicable.	40 CFR 63.7751
(a) Semiannual compliance reports shall be submitted to the Department and the EPA according to the schedule in 40 CFR 63.7751(a).	
i. All reports to the EPA shall be submitted 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/).	
(b) Semiannual compliance reports shall include all applicable information in 40 CFR 63.7751(b).	
(c) Performance test results shall be submitted to the Department and the EPA within 60 days of completing the test(s) according to the requirements of 40 CFR 63.7751(f).	
8. The facility shall comply with the recordkeeping requirements in 40 CFR 63.7752(a) through (e), and 40 CFR 63.7753(a) through (c), as applicable.	40 CFR 63.7752 40 CFR 63.7753

Summary Page for Snag Grinders & De-gating Line, Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast with Shared Baghouse L

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
013	Snag Grinders, De-gating Line, Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast	PM	The lesser of: 13.1 lb/hr (33.3 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
013	Snag Grinders and De-gating Line	PM	The lesser of: 2.10 lb/hr (5.20 tpy) or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
013	Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast	PM	The lesser of: 0.37 lb/ton or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
013	Snag Grinders, De-gating Line, Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)

Provisos for Snag Grinders & De-gating Line, Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast with Shared Baghouse L

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Matter Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02(3), <i>"Fugitive Dust and Fugitive Emissions"</i> .	Rule 335-3-4-.02(3)
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, <i>"Control of Particulate Matter Emissions – Process Industries – General"</i> .	Rule 335-3-4-.04(1)
5. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 (Anti-PSD)
6. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> .	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Snag Grinders, De-gating Line, Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast with Shared Baghouse L shall not exceed the lesser of 13.1 lb/hr (33.3 tpy) or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from the Snag Grinders and De-gating Line with Shared Baghouse L shall not exceed the lesser of 2.10 lb/hr (5.20 TPY) or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)
3. Particulate matter emissions from the Continuous Shotblast, Rocker Shotblast, and Reclean Shotblast with Shared Baghouse L shall not exceed the lesser of 0.37 lb/ton of castings processed or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 (Anti-PSD)

Federally Enforceable Provisos	Regulations
4. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gas and air gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants be discharge to the open air.	Rule 335-3-4-.02(3)
5. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall monitor and record the pressure drop across the baghouse at least once per day.	Rule 335-3-16-.05(c)1
4. The facility shall perform a visual check, at least once per day, of the stack associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed at any time and are not corrected within a period of 1 hour, then a 30-minute Method 9 observation must be performed within 4 hours. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)1
5. The facility shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed.	Rule 335-3-16-.05(c)1
(a) Once per week check hopper, fan, and cleaning cycle for proper operation.	
(b) Once per week conduct a visual check of all hoods and ductwork.	
(c) Record any repairs and observed problems.	

Federally Enforceable Provisos	Regulations
<p>6. The facility shall perform an annual inspection of the baghouses to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per year inspect baghouse structure, access doors, door seals, and bags.</p> <p>(c) Once per year perform an internal inspection of the baghouse hoppers.</p> <p>(c) Record any repairs or observed problems.</p>	Rule 335-3-16-.05(c)1
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)2
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-16-.05(c)2
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05(c)2 40 CFR Part 64

Summary Page for Diesel Emergency Generator Engines

Permitted Operating

Schedule:

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
041 & 042	Emergency Engines	Opacity	(see general proviso 29)	Rule 335-3-4-.01(1)

Provisos for Emergency Generator #1 & #2

Federally Enforceable Provisos	Regulations
Applicability	
1. These units are subject to the provisions of ADEM Admin. Code r. 335-3-16-.03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These units are subject to the provisions of ADEM Admin. Code r. 335-3-4-.01, <i>"Control of Particulate Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, <i>"National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines"</i> .	Rule 335-3-11-.06(103) 40 CFR 63.6585
4. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, <i>"General Provisions"</i> , as listed in Table 8 of 40 CFR Part 63, Subpart ZZZZ.	Rule 335-3-11-.06(1) 40 CFR 63.6665
Emission Standards	
1. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. If the engine operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), the Permittee shall use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel.	40 CFR 63.6604(b)
3. At all times the facility must operate and maintain the engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the facility to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	40 CFR 63.6605(b)

Federally Enforceable Provisos	Regulations
<p>4. The facility must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engines to be considered emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the facility does not operate the engines according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engines will not be considered emergency engines under this subpart and must meet all requirements for non-emergency engines.</p>	<p>40 CFR 63.6640(f)</p>
<p>(a) There is no time limit on the use of emergency stationary RICE in emergency situations.</p>	<p>40 CFR 63.6640(f)(1)</p>
<p>(b) The facility may operate emergency stationary RICE for any combination of the purposes specified in 40 CFR 63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).</p>	<p>40 CFR 63.6640(f)(2)</p>
<p>i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.</p>	<p>40 CFR 63.6640(f)(2)(i)</p>

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 	<p>40 CFR 63.6640(f)(2)(ii)</p> <p>40 CFR 63.6640(f)(2)(iii)</p>
<ul style="list-style-type: none"> (c) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. 	<p>40 CFR 63.6640(f)(3)</p>
Compliance and Performance Test Methods and Procedures	
<ul style="list-style-type: none"> 1. If testing is required, Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate matter. 2. If testing is required, Method 6 or 6A of 40 CFR Part 60, Appendix A-4, shall be used in the determination of sulfur dioxide. 3. If testing is required, Method 7E of 40 CFR Part 60, Appendix A-4, shall be used in the determination of nitrogen oxide. 4. If testing is required, Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity. 5. If testing is required, Method 10 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of carbon monoxide. 	<p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
6. If testing is required, Method 25A of 40 CFR Part 60, Appendix A-7, shall be used in the determination of total hydrocarbons.	Rule 335-3-1-.05
7. If testing is required, Method 320 or 323 of 40 CFR Part 63, Appendix A, shall be used in the determination of formaldehyde.	Rule 335-3-1-.05
Emission Monitoring	
1. Monitoring shall be in the form of recordkeeping and submitting required reports.	N/A
Recordkeeping and Reporting Requirements	
1. If the engine operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), the facility must submit an annual report according to the requirements of 40 CFR 63.6650(h).	40 CFR 63.6650(h)
2. The facility shall keep records of the maintenance conducted on the engine in order to demonstrate that they operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan.	40 CFR 63.6655(e)
3. Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). The facility must keep each record readily accessible in hard copy or electronic form for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	40 CFR 63.6660(a)-(c)

APPENDIX

DRAFT

Compliance Assurance Monitoring (CAM) Plan for EP 002 with Baghouse K, EP 006 with Baghouse BB, EP 007 with Baghouse CC, EP 008 with Baghouse I, and EP 009 with Baghouse J

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Established Collector Pressure Drop Range
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10%. Excursions trigger an inspection, corrective action, and a reporting requirements. If an excursion is noted and not corrected within a period of one (1) hour, then a Method 9 must be performed within four (4) hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
A. Data Representativeness		
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily.	An observation will be performed daily.
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer.	Observation will be recorded with date, time, results, and name of observer.
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 003 with Baghouse G
(Nodularization Operations – Magnesium Ductile Treatment)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Established Collector Pressure Drop Range
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10%. Excursions trigger an inspection, corrective action, and a reporting requirements. If an excursion is noted and not corrected within a period of one (1) hour, then a Method 9 must be performed within four (4) hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 3.0 inches of H ₂ O and greater than 10.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily.	An observation will be performed daily.
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer.	Observation will be recorded with date, time, results, and name of observer.
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 013 with Baghouse L
(Snag Grinders & De-gating Line, and Continuous, Rocker, & Reclean Shotblast)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10%. Excursions trigger an inspection, corrective action, and a reporting requirements. If an excursion is noted and not corrected within a period of one (1) hour, then a Method 9 must be performed within four (4) hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 1.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily.	An observation will be performed daily.
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer.	Observation will be recorded with date, time, results, and name of observer.
Averaging Period	Instantaneous	Instantaneous