



# MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** LEE BRASS FOUNDRY, LLC  
**FACILITY NAME:** LEE BRASS FOUNDRY, LLC  
**FACILITY/PERMIT NO.:** 301-0005  
**LOCATION:** ANNISTON, ALABAMA

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

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

**Issuance Date:** DRAFT  
**Effective Date:** DRAFT  
**Expiration Date:** DRAFT

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## GENERAL PERMIT PROVISOS

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<p>1. <b><u>Transfer</u></b></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	Rule 335-3-16-.02(6)
<p>2. <b><u>Renewals</u></b></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <b><u>Severability Clause</u></b></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>	Rule 335-3-16-.05(e)
<p>4. <b><u>Compliance</u></b></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. <b><u>Termination for Cause</u></b></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <b><u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <b><u>Submission of Information</u></b></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <b><u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <b><u>Certification of Truth, Accuracy, and Completeness:</u></b></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>	Rule 335-3-16-.07(a)

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<p>10. <b><u>Inspection and Entry</u></b></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> <li>(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;</li> <li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li> <li>(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;</li> <li>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</li> </ul>	<p>Rule 335-3-16-.07(b)</p>
<p>11. <b><u>Compliance Provisions</u></b></p> <ul style="list-style-type: none"> <li>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</li> <li>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</li> </ul>	<p>Rule 335-3-16-.07(c)</p>
<p>12. <b><u>Compliance Certification</u></b></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"> <li>(a) The compliance certification shall include the following: <ul style="list-style-type: none"> <li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li> <li>(2) The compliance status;</li> </ul> </li> </ul>	<p>Rule 335-3-16-.07(e)</p>

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<p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements);</p> <p>(4) Whether the method(s) or other means used to assure compliance provided continuous or intermittent data;</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="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p> <p><b>13. <u>Reopening for Cause</u></b></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>Rule 335-3-16-.13(5)</p>

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<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>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <b><u>Additional Rules and Regulations</u></b></p> <p>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.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>15. <b><u>Equipment Maintenance or Breakdown</u></b></p> <p>(a) In case of shutdown of air pollution control equipment for scheduled maintenance, the intent to shut down shall be reported to the Department at least 24 hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. The Department shall be notified when maintenance on the air pollution control equipment is complete and the equipment is operating.</p> <p>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</p> <p>(2) The expected length of time that the air pollution control equipment will be out of service;</p> <p>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</p> <p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the source operation</p>	<p>Rule 335-3-1-.07(1),(2)</p>

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<p style="text-align: center;">during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.</p> <p>16. <b><u>Operation of Capture and Control Devices</u></b></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>17. <b><u>Obnoxious Odors</u></b></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>18. <b><u>Fugitive Dust</u></b></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:</p> <p style="padding-left: 40px;">(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 style="padding-left: 40px;">(2) By reducing the speed of vehicular traffic to a</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p> <p>Rule 335-3-1-.08</p> <p>Rule 335-3-4-.02</p>

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<p>point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <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>(5) By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface.</p>	
<p>19. <b><u>Additions and Revisions</u></b></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. <b><u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <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</p>	<p>Rule 335-3-16-.05(c)(2)</p>



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<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>(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. <b><u>Payment of Emission Fees</u></b></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. <b><u>Other Reporting and Testing Requirements</u></b></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. <b><u>Title VI Requirements (Refrigerants)</u></b></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</p>	<p>40 CRR Part 82</p>

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<p>recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	
<p>26. <b><u>Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	<p>40 CFR Part 68</p>
<p>27. <b><u>Display of Permit</u></b></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. <b><u>Circumvention</u></b></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. <b><u>Visible Emissions</u></b></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>

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<p>30. <b><u>Fuel-Burning Equipment</u></b></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 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 Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p>31. <b><u>Process Industries – General</u></b></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 Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <b><u>Averaging Time for Emission Limits</u></b></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method</p>	<p>Rule 335-3-1-.05</p>
<p>33. <b><u>Compliance Assurance Monitoring (CAM)</u></b></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><b>(a) Operation of Approved Monitoring</b></p> <p>(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p>	<p>40 CFR 64.7</p>

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

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<p>excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) <i>Documentation of need for improved monitoring.</i> After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p> <p><b>(b) Quality Improvement Plan (QIP) Requirements</b></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>40 CFR 64.8</p>

## GENERAL PERMIT PROVISOS

Federally Enforceable Provisos	Regulations
<p>(2) Elements of a QIP:</p> <ol style="list-style-type: none"> <li>1. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</li> <li>2. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:               <ol style="list-style-type: none"> <li>(i) Improved preventive maintenance practices.</li> <li>(ii) Process operation changes.</li> <li>(iii) Appropriate improvements to control methods.</li> <li>(iv) Other steps appropriate to correct control performance.</li> <li>(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).</li> </ol> </li> <li>(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.</li> <li>(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:               <ol style="list-style-type: none"> <li>(a) Failed to address the cause of the control device performance problems; or</li> <li>(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.</li> </ol> </li> </ol>	

## GENERAL PERMIT PROVISOS

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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><b>(c) Reporting and Recordkeeping Requirements</b></p> <p>(1) <i>General reporting requirements</i></p> <p>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>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 been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p>	<p>40 CFR 64.9</p>

## GENERAL PERMIT PROVISOS

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<p>(2) <i>General recordkeeping requirements.</i></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><b>(d) Savings Provisions</b></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 requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the</p>	<p>40 CFR 64.10</p>

## GENERAL PERMIT PROVISOS

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>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 not 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 PANGBORN BLAST MACHINE, FOUR (4) CUT-OFF  
SAWS, ONE (1) DIDION METAL RECOVERY SYSTEM – FOUNDRY 1 w/  
BAGHOUSE # 2**

**Permitted**

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

**Emission limitations:**

<b>Emission Point #</b>	<b>Description</b>	<b>Pollutant</b>	<b>Emission limit</b>	<b>Regulation</b>
002	Pangborn Blast Machine (2.5 TPH) – Four (4) Cut-Off Saws and One (1) Didion Metal Recovery System Foundry 1 with Baghouse # 3	PM	5.5lbs/hr  E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-14-.04 (Anti-PSD)  Rule 335-3-4-.04
002	Pangborn Blast Machine (2.5 TPH) – Four (4) Cut-Off Saws and One (1) Didion Metal Recovery System Foundry 1 with Baghouse # 3	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR PANGBORN BLAST MACHINE, FOUR (4) CUT-OFF SAWS,  
ONE DIDION METAL RECOVERY SYSTEM – FOUNDRY 1 w/BAGHOUSE # 2**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. This unit has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].”	Rule 335-3-14-.04
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the lesser of 5.5 lbs/hr or the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:  (a) Check hopper, fan, and cleaning cycle for proper operation.  (b) Check all hoods and ducts.  (c) Record any repairs or observed problems.	Rule 335-3-16-.05(c)

**Federally Enforceable Provisos**

**Regulations**

3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:
- (a) Inspect baghouse structure, access doors, door seals, and bags.
  - (b) Perform an internal inspection of the baghouse hoppers.
  - (c) Record any repairs or observed problems.

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

**Recordkeeping and Reporting Requirements**

- 1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
- 2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

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

**SUMMARY PAGE FOR FOUR (4) ELECTRIC INDUCTION CHANNEL FURNACES,  
TWO (2) AJAX CORELESS FURNACES, ONE DIDION METAL RECLAIMER,  
FOUR (4) LADLE HEATERS AND ONE POURING AND COOLING HOOD –  
FOUNDRY 1 W/ BAGHOUSE # 4**

**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
004	Four (4) Electric Induction Channel Furnaces Two (2) Ajax Coreless Furnaces (1 TPH), One (1) Didion Metal Reclaimer, One (1) Pouring and Cooling Hood, and Four (4) Ladle Heaters – Foundry #1 with Baghouse # 4	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
004	Four (4) Electric Induction Channel Furnaces Two (2) Ajax Coreless Furnaces (1 TPH), One (1) Didion Metal Reclaimer, One (1) Pouring and Cooling Hood, and Four (4) Ladle Heaters – Foundry #1 with Baghouse # 4	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR FOUR (4) ELECTRIC INDUCTION CHANNEL FURNACES, TWO (2) AJAX CORELESS FURNACES, ONE DIDION METAL RECLAIMER, FOUR (4) LADLE HEATERS AND ONE POURING AND COOLING HOOD – FOUNDRY 1 W/ BAGHOUSE # 4**

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
Emission Standards	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: <ul style="list-style-type: none"> <li>(a) Check hopper, fan, and cleaning cycle for proper operation.</li> <li>(b) Check all hoods and ducts.</li> <li>(c) Record any repairs or observed problems.</li> </ul>	Rule 335-3-16-.05(c)

**Federally Enforceable Provisos**

**Regulations**

3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:
- (a) Inspect baghouse structure, access doors, door seals, and bags.
  - (b) Perform an internal inspection of the baghouse hoppers.
  - (c) Record any repairs or observed problems.

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

**Recordkeeping and Reporting Requirements**

- 1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
- 2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

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

**SUMMARY PAGE FOR MULLER SAND HANDLING SYSTEM AND METAL RECOVERY SYSTEM – FOUNDRY 1 w/ BAGHOUSE # 5**

**Permitted**

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

**Emission limitations:**

<b>Emission Point #</b>	<b>Description</b>	<b>Pollutant</b>	<b>Emission limit</b>	<b>Regulation</b>
005	Muller Sand Handling System and Metal Recovery System – Foundry 1 with Baghouse # 5	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
005	Muller Sand Handling System and Metal Recovery System – Foundry 1 with Baghouse # 5	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR MULLER SAND HANDLING SYSTEM AND METAL RECOVERY  
SYSTEM – FOUNDRY 1 w/ BAGHOUSE # 5**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring” to include General Proviso No. 33.	40 CFR Part 64
3. This unit has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].”	Rule 335-3-14-.04
<b>Emission Standards</b>	
1. The hours of operation for the sand handling system shall not exceed 6,000 hours in any consecutive rolling 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, “Compliance Assurance Monitoring”.	40 CFR Part 64
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>3. 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"> <li>(a) Inspect baghouse structure, access doors, door seals, and bags.</li> <li>(b) Perform an internal inspection of the baghouse hoppers.</li> <li>(c) Record any repairs or observed problems.</li> </ul>	<p>Rule 335-3-16-.05(c)</p>
<p>Recordkeeping and Reporting Requirements</p>	
<p>1. The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for these units. Each record shall be maintained for a period of 5 years.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. The facility shall maintain a record of all weekly and annual baghouse inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>3. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.</p>	<p>40 CFR Part 64</p>
<p>4. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	<p>40 CFR Part 64</p>
<p>5. The facility shall maintain a record of all visual checks and Method 9 tests performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	<p>40 CFR Part 64</p>

**SUMMARY PAGE FOR BRASS CASTING/POURING LINE – FOUNDRY 3 w/  
BAGHOUSE # 6**

**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
006	Brass Casting/Pouring Line – Foundry 3 including: Two (2) side draft pouring hoods, Five (5) hawley travel hoods with Baghouse # 6	PM	6.18 lbs/hr  E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-14-.04 (Anti-PSD)  Rule 335-3-4-.04
006	Brass Casting/Pouring Line – Foundry 3 including: Two (2) side draft pouring hoods, Five (5) hawley travel hoods with Baghouse # 6	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR BRASS CASTING/POURING LINE – FOUNDRY 3 w/  
BAGHOUSE # 6**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. This unit has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].”	Rule 335-3-14-.04
<b>Emission Standards</b>	
1. The hours of operation for the brass casting/pouring line shall not exceed 4,800 hours in any consecutive rolling 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from this unit shall not exceed the lesser of 6.18 lbs/hr or the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-14-.04 (Anti-PSD)  Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	

**Federally Enforceable Provisos**

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<ul style="list-style-type: none"><li>(b) Check all hoods and ducts.</li><li>(c) Record any repairs or observed problems.</li></ul> <p>3. 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"><li>(a) Inspect baghouse structure, access doors, door seals, and bags.</li><li>(b) Perform an internal inspection of the baghouse hoppers.</li><li>(c) Record any repairs or observed problems.</li></ul>	<p>Rule 335-3-16-.05(c)</p>
<p>Recordkeeping and Reporting Requirements</p>	
<p>1. The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for these units. Each record shall be maintained for a period of 5 years.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>3. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.</p>	<p>Rule 335-3-16-.05(c)</p>

**SUMMARY PAGE FOR ELECTRIC CHANNEL AND ELECTRIC CORELESS  
FURNACES – FOUNDRY 3 W/ BAGHOUSE # 7**

**Permitted**

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

**Emission limitations:**

<b>Emission Point #</b>	<b>Description</b>	<b>Pollutant</b>	<b>Emission limit</b>	<b>Regulation</b>
007	Three (3) Electric Channel Furnaces (1.5 TPH each), Seven (7) Electric Coreless Furnaces and Seven (7) Ladle Heaters – Foundry 3 with Baghouse # 7	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
007	Three (3) Electric Channel Furnaces (1.5 TPH each), Seven (7) Electric Coreless Furnaces and Seven (7) Ladle Heaters – Foundry 3 with Baghouse # 7	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR ELECTRIC CHANNEL AND ELECTRIC CORELESS FURNACES –  
FOUNDRY 3 W/ BAGHOUSE # 7**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. 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)
(a) Inspect baghouse structure, access doors, door seals, and bags.	

**Federally Enforceable Provisos**

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(b) Perform an internal inspection of the baghouse hoppers.

(c) Record any repairs or observed problems.

**Recordkeeping and Reporting Requirements**

1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.

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

2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

**SUMMARY PAGE FOR FIVE (5) CUTOFF SAWS, TWO WHEELABRATOR  
SHOTBLAST MACHINES, ONE (1) GRINDER AND ONE (1) PLASMA CUTTER –  
FOUNDRY 3 W/ BAGHOUSE # 8**

**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	Five (5) Cutoff Saws, Two (2) Wheelabrator Shotblast Machines, One (1) Grinder and One (1) Plasma Cutter – Foundry 3 with Baghouse # 8	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
008	Five (5) Cutoff Saws, Two (2) Wheelabrator Shotblast Machines, One (1) Grinder and One (1) Plasma Cutter – Foundry 3 with Baghouse # 8	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR FIVE CUTOFF SAWS AND TWO WHEELABRATORS– FOUNDRY  
3 W/ BAGHOUSE # 8**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring” to include General Proviso No. 33.	40 CFR Part 64
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, “Compliance Assurance Monitoring”.	40 CFR Part 64
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. 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)
(a) Inspect baghouse structure, access doors, door seals, and bags.	
(b) Perform an internal inspection of the baghouse hoppers.	

**Federally Enforceable Provisos**

**Regulations**

(c) Record any repairs or observed problems.

Recordkeeping and Reporting Requirements

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|--|----------------------|
| 1. The facility shall maintain a record of all weekly and annual baghouse inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.       | Rule 335-3-16-.05(c) |
| 2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.   | 40 CFR Part 64       |
| 3. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.   | 40 CFR Part 64       |
| 4. The facility shall maintain a record of all visual checks and Method 9 tests performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years. | 40 CFR Part 64       |

**SUMMARY PAGE FOR CASTING CLEANING & MULLER SAND HANDLING  
SYSTEM – FOUNDRY 3 W/ BAGHOUSE # 9**

**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
009	Muller Sand Handling System, Foundry 3 with Baghouse # 9	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
009	Muller Sand Handling System, Foundry 3 with Baghouse # 9	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR CASTING CLEANING & MULLER SAND HANDLING SYSTEM –  
FOUNDRY 3 W/ BAGHOUSE # 9**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring” to include General Proviso No. 33.	40 CFR Part 64
3. This unit has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].”	Rule 335-3-14-.04
<b>Emission Standards</b>	
1. The hours of operation for these units shall not exceed 6,000 hours in any consecutive rolling 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, “Compliance Assurance Monitoring”.	40 CFR Part 64
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	

**Federally Enforceable Provisos****Regulations**

3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:
- (a) Inspect baghouse structure, access doors, door seals, and bags.
  - (b) Perform an internal inspection of the baghouse hoppers.
  - (c) Record any repairs or observed problems.

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

## Recordkeeping and Reporting Requirements

1. The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for these units. Each record shall be maintained for a period of 5 years.
2. The facility shall maintain a record of all weekly and annual baghouse inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
3. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
5. The facility shall maintain a record of all visual checks and Method 9 tests performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.

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

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

40 CFR Part 64

40 CFR Part 64

40 CFR Part 64

## SUMMARY PAGE FOR SOUTH END CLEANING ROOM W/ BAGHOUSE # 11

**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
011	South End Cleaning Room – Grinders with Baghouse # 11	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
011	South End Cleaning Room – Grinders with Baghouse # 11	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

## PROVISOS FOR SOUTH END CLEANING ROOM W/ BAGHOUSE # 11

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. 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)
(a) Inspect baghouse structure, access doors, door seals, and bags.	
(b) Perform an internal inspection of the baghouse hoppers.	

**Federally Enforceable Provisos**

**Regulations**

(c) Record any repairs or observed problems.

Recordkeeping and Reporting Requirements

1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

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

## SUMMARY PAGE FOR NORTH END CLEANING ROOM W/ BAGHOUSE # 12

**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	North End Cleaning Room – Grinders and Saws with Baghouse # 12	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
012	North End Cleaning Room – Grinders and Saws with Baghouse # 12	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

## PROVISOS FOR NORTH END CLEANING ROOM W/ BAGHOUSE # 12

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
2. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring" to include General Proviso No. 33.	40 CFR Part 64
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. 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)
(a) Inspect baghouse structure, access doors, door seals, and bags.	
(b) Perform an internal inspection of the baghouse hoppers.	

**Federally Enforceable Provisos**

**Regulations**

(c) Record any repairs or observed problems.

Recordkeeping and Reporting Requirements

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| 1. The facility shall maintain a record of all weekly and annual baghouse inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.       | Rule 335-3-16-.05(c) |
| 2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.   | 40 CFR Part 64       |
| 3. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.   | 40 CFR Part 64       |
| 4. The facility shall maintain a record of all visual checks and Method 9 tests performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years. | 40 CFR Part 64       |

**SUMMARY PAGE FOR FOUR WHEELABRATOR SHOTBLAST MACHINES W/  
BAGHOUSE # 13, # 14, # 15, & # 16**

**Permitted**

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

**Emission limitations:**

<b>Emission Point #</b>	<b>Description</b>	<b>Pollutant</b>	<b>Emission limit</b>	<b>Regulation</b>
013	Wheelabrator Shotblast – Cleaning Room with Baghouse # 13	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
013	Wheelabrator Shotblast – Cleaning Room with Baghouse # 13	Opacity	(See General Proviso 29)	Rule 335-3-4-.01
014	Wheelabrator Shotblast – Cleaning Room with Baghouse # 14	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
014	Wheelabrator Shotblast – Cleaning Room with Baghouse # 14	Opacity	(See General Proviso 29)	Rule 335-3-4-.01
015	Wheelabrator Shotblast – Foundry 1 with Baghouse # 15	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
015	Wheelabrator Shotblast – Foundry 1 with Baghouse # 15	Opacity	(See General Proviso 29)	Rule 335-3-4-.01
016	Wheelabrator Shotblast – Foundry 2 with Baghouse # 16	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
016	Wheelabrator Shotblast – Foundry 2 with Baghouse # 16	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR FOUR WHEELABRATOR SHOTBLAST MACHINES W/  
BAGHOUSE # 13, # 14, # 15, & # 16**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. 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)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. 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)
(a) Inspect baghouse structure, access doors, door seals, and bags.	

**Federally Enforceable Provisos**

**Regulations**

(b) Perform an internal inspection of the baghouse hoppers.

(c) Record any repairs or observed problems.

**Recordkeeping and Reporting Requirements**

1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.

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

2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

## SUMMARY PAGE FOR CORE OVEN – CORE ROOM

**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
017	Core Oven – Core Room	PM	E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-4-.04
017	Core Oven – Core Room	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

## PROVISOS FOR CORE OVEN – CORE ROOM

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
<b>Recordkeeping and Reporting Requirements</b>	
1. Visible checks should be recorded with the date, time, and name of observer. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.	Rule 335-3-16-.05(c)

**SUMMARY PAGE FOR COMPACT ATTRITION RECLAMATION SYSTEM –  
FOUNDRY 3 W/ BAGHOUSE # 18**

**Permitted**

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

**Emission limitations:**

<b>Emission Point #</b>	<b>Description</b>	<b>Pollutant</b>	<b>Emission limit</b>	<b>Regulation</b>
018	Compact Attrition Reclamation System – Foundry 3 with Baghouse # 18	PM	3.4 lbs/hr  E = 3.59 (P) <sup>0.62</sup>	Rule 335-3-14-.04 (Anti-PSD)  Rule 335-3-4-.04
018	Compact Attrition Reclamation System – Foundry 3 with Baghouse # 18	Opacity	(See General Proviso 29)	Rule 335-3-4-.01

**PROVISOS FOR COMPACT ATTRITION RECLAMATION SYSTEM – FOUNDRY 3  
W/ BAGHOUSE # 18**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits.”	Rule 335-3-16-.03
2. This unit has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].”	Rule 335-3-14-.04
<b>Emission Standards</b>	
1. Particulate matter emissions from this unit shall not exceed the lesser of 3.4 lbs/hr or the allowable set by ADEM Admin. Code R. 335-3-4-.04.	Rule 335-3-14-.04 (Anti-PSD)  Rule 335-3-4-.04
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 5 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of particulate matter emissions	Rule 335-3-1-.05
2. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<b>Emission Monitoring</b>	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and not corrected within a period of 1 hour, a Method 9 must be performed within 4 hours of the observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)

**Federally Enforceable Provisos**

**Regulations**

- 2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:
  - (a) Check hopper, fan, and cleaning cycle for proper operation.
  - (b) Check all hoods and ducts.
  - (c) Record any repairs or observed problems.
- 3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:
  - (a) Inspect baghouse structure, access doors, door seals, and bags.
  - (b) Perform an internal inspection of the baghouse hoppers.
  - (c) Record any repairs or observed problems.

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

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

**Recordkeeping and Reporting Requirements**

- 1. The facility shall maintain a record of all inspections performed to satisfy the requirements of emission monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.
- 2. If a Method 9 test is performed, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action will be documented in a logbook. Each record shall be maintained for a period of 5 years.

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

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

## **APPENDIX CAM**

### **Compliance Assurance Monitoring Requirements**

**CAM Plan for Muller Sand Handling System – Foundry 1 w/ Baghouse # 5**

	Indicator 1	Indicator 2
I. Indicator	Visible Emission	Pressure Drop
Measurement Approach	Visible emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	<p>Visible emissions shall be &lt; 10%.</p> <p>An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.</p>	<p>Pressure drop should be maintained at <math>3 \leq P \leq 10</math> inches of water.</p> <p>An excursion is any value less than 3 and greater than 10 inches of water.</p>
III. Performance Criteria		
1. Data Representativeness	<p>Measurements are being made at the emission point.</p> <p>(Baghouse Exhaust)</p>	Measurements are being made at the baghouse inlet and outlet.
2. Verification of Operation Status	Not Applicable	Not Applicable
3. QA/QC Practices and Criteria	The Observer will be a Method 9 trained observer certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
4. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
5. Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
6. Averaging Period	<p>Visual Check: Instantaneous</p> <p>Method 9: 6-Minute Average</p>	Instantaneous

**CAM Plan for Five Cutoff Saws and Shotblasts– Foundry 3 w/ Baghouse # 8**

	Indicator 1	Indicator 2
I. Indicator	Visible Emission	Pressure Drop
Measurement Approach	Visible emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	<p>Visible emissions shall be &lt; 10%.</p> <p>An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.</p>	<p>Pressure drop should be maintained at <math>3 \leq P \leq 10</math> inches of water.</p> <p>An excursion is any value less than 3 and greater than 10 inches of water.</p>
III. Performance Criteria		
1. Data Representativeness	<p>Measurements are being made at the emission point.</p> <p>(Baghouse Exhaust)</p>	Measurements are being made at the baghouse inlet and outlet.
2. Verification of Operation Status	Not Applicable	Not Applicable
3. QA/QC Practices and Criteria	The Observer will be a Method 9 trained observer certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
4. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
5. Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
6. Averaging Period	<p>Visual Check: Instantaneous</p> <p>Method 9: 6-Minute Average</p>	Instantaneous

**CAM Plan for Casting Cleaning & Muller Sand Handling System – Foundry 3 w/  
Baghouse # 9**

	Indicator 1	Indicator 2
I. Indicator	Visible Emission	Pressure Drop
Measurement Approach	Visible emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	<p>Visible emissions shall be &lt; 10%.</p> <p>An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.</p>	<p>Pressure drop should be maintained at <math>3 \leq P \leq 10</math> inches of water.</p> <p>An excursion is any value less than 3 and greater than 10 inches of water.</p>
III. Performance Criteria		
1. Data Representativeness	<p>Measurements are being made at the emission point.</p> <p>(Baghouse Exhaust)</p>	Measurements are being made at the baghouse inlet and outlet.
2. Verification of Operation Status	Not Applicable	Not Applicable
3. QA/QC Practices and Criteria	The Observer will be a Method 9 trained observer certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
4. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
5. Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
6. Averaging Period	<p>Visual Check: Instantaneous</p> <p>Method 9: 6-Minute Average</p>	Instantaneous

**CAM Plan for North End Cleaning Room w/ Baghouse # 12**

	Indicator 1	Indicator 2
I. Indicator	Visible Emission	Pressure Drop
Measurement Approach	Visible emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	<p>Visible emissions shall be &lt; 10%.</p> <p>An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.</p>	<p>Pressure drop should be maintained at <math>3 \leq P \leq 10</math> inches of water.</p> <p>An excursion is any value less than 3 and greater than 10 inches of water.</p>
III. Performance Criteria		
1. Data Representativeness	<p>Measurements are being made at the emission point.</p> <p>(Baghouse Exhaust)</p>	Measurements are being made at the baghouse inlet and outlet.
2. Verification of Operation Status	Not Applicable	Not Applicable
3. QA/QC Practices and Criteria	The Observer will be a Method 9 trained observer certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
4. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
5. Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
6. Averaging Period	<p>Visual Check: Instantaneous</p> <p>Method 9: 6-Minute Average</p>	Instantaneous