



# MAJOR SOURCE OPERATING PERMIT

Permittee: **Alloy Resources Inc**  
Facility Name: **Alloy Resources Inc**  
Facility No.: 711-0023  
Location: Albertville, 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**

Expiration Date:

**TABLE OF CONTENTS**

**GENERAL PERMIT PROVISOS ..... 5**

**SUMMARY FOR ELECTRIC ARC FURNACE #1 WITH BAGHOUSE ..... 19**

**NOTE: THE TWO ELECTRIC ARC FURNACES EACH HAVE AN INDIVIDUAL BAGHOUSE STACK AND ONLY ONE OPERATES AT A TIME. PROVISOS FOR ELECTRIC ARC FURNACE #1 WITH BAGHOUSE ..... 19**

**PROVISOS FOR ELECTRIC ARC FURNACE #1 WITH BAGHOUSE ..... 20**

*Applicability..... 20*

*Emission Standards ..... 20*

*Compliance and Performance Test Methods and Procedures..... 21*

*Emission Monitoring ..... 22*

*Operations Monitoring.....23*

*Recordkeeping and Reporting Requirements..... 23*

**SUMMARY FOR ELECTRIC ARC FURNACE #2 WITH BAGHOUSE ..... 25**

**NOTE: THE TWO ELECTRIC ARC FURNACES EACH HAVE AN INDIVIDUAL BAGHOUSE STACK AND ONLY ONE OPERATES AT A TIME. PROVISOS FOR ELECTRIC ARC FURNACE #2 WITH BAGHOUSE ..... 25**

**PROVISOS FOR ELECTRIC ARC FURNACE #2 WITH BAGHOUSE ..... 26**

*Applicability..... 26*

*Emission Standards ..... 26*

*Compliance and Performance Test Methods and Procedures..... 27*

*Emission Monitoring ..... 28*

*Operations Monitoring.....29*

*Recordkeeping and Reporting Requirements..... 29*

**SUMMARY PAGE FOR CHARGE HANDLING..... 31**

**PROVISOS FOR CHARGE HANDLING ..... 32**

*Applicability..... 32*

*Emission Standards ..... 32*

*Emission Monitoring ..... 32*

*Recordkeeping and Reporting Requirements..... 32*

**SUMMARY PAGE FOR AOD VESSEL WITH SHARED BAGHOUSE..... 33**

**\*NOTE: THE AOD SHARES A BAGHOUSE WITH THE WHEELABRATOR.  
PROVISOS FOR AOD VESSEL WITH SHARED BAGHOUSE ..... 33**

**PROVISOS FOR AOD VESSEL WITH SHARED BAGHOUSE ..... 34**

*Applicability..... 34*

*Emission Standards ..... 34*

*Compliance and Performance Test Methods and Procedures..... 35*

*Operations Monitoring ..... 35*

*Recordkeeping and Reporting Requirements..... 36*

**SUMMARY PAGE FOR POURING CASTING AND COOLING ..... 37**

**PROVISOS FOR POURING, CASTING AND COOLING..... 38**

*Applicability..... 38*

*Emission Standards ..... 38*

*Emission Monitoring ..... 38*

*Recordkeeping and Reporting Requirements..... 38*

**SUMMARY PAGE FOR ABRASIVE BLASTING WITH SHARED BAGHOUSE. 39**

**NOTE: EMISSION LIMITS APPLY WHEN ABRASIVE BLASTING IS BEING OPERATED AT THE SAME TIME AS THE AOD SINCE THEY SHARE THE**

**SAME BAGHOUSE.PROVISOS FOR ABRASIVE BLASTING WITH SHARED BAGHOUSE ..... 39**

**PROVISOS FOR ABRASIVE BLASTING WITH SHARED BAGHOUSE ..... 40**

*Applicability..... 40*

*Emission Standards ..... 40*

*Emission Monitoring ..... 40*

*Recordkeeping and Reporting Requirements..... 41*

**CAM APPENDIX.....43**

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>1. <u>Transfer</u></b> 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><b>2. <u>Renewals</u></b> An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit. The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p><b>3. <u>Severability Clause</u></b> The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p><b>4. <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>	Rule 335-3-16-.05(f)  Rule 335-3-16-.05(g)
<p><b>5. <u>Termination for Cause</u></b> 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)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>6. <u>Property Rights</u></b> 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><b>7. <u>Submission of Information</u></b> 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><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b> 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><b>9. <u>Certification of Truth, Accuracy, and Completeness:</u></b> 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)
<p><b>10. <u>Inspection and Entry</u></b> 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>	Rule 335-3-16-.07(b)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>11. <u>Compliance Provisions</u></b></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> <p><b>12. <u>Compliance Certification</u></b></p> <p>A compliance certification shall be submitted annually by within 60 days of the anniversary date of the issuance of this permit.</p> <p>(a) The compliance certification shall include the following:</p> <ol 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> <li>(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);</li> <li>(4) Whether compliance has been continuous or intermittent;</li> <li>(5) Such other facts as the Department may require to determine the compliance status of the source;</li> </ol> <p>(b) The compliance certification shall be submitted to: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to:  Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	<p>Rule 335-3-16-.07(c)</p> <p>Rule 335-3-16-.07(e)</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</p>	<p>Rule 335-3-16-.13(5)</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p><b>14. <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), Code of Alabama 1975, as amended</p>
<p><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> <li>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</li> <li>(2) The expected length of time that the air pollution control equipment will be out of service;</li> <li>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</li> <li>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> <li>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</li> </ol> <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</p>	<p>Rule 335-3-1-.07(1), (2)</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p><b>16. <u>Operation of Capture and Control Devices</u></b> 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), Code of Alabama 1975, as amended</p>
<p><b>17. <u>Obnoxious Odors</u></b> 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><b>18. <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. 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>(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;</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>Rule 335-3-4-.02</p>
<p><b>19. <u>Additions and Revisions</u></b></p>	

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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><b>20. <u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ol style="list-style-type: none"> <li>(1) The date, place, and time of all sampling or measurements;</li> <li>(2) The date analyses were performed;</li> <li>(3) The company or entity that performed the analyses;</li> <li>(4) The analytical techniques or methods used;</li> <li>(5) The results of all analyses; and</li> <li>(6) The operating conditions that existed at the time of sampling or measurement.</li> </ol> <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>
<p><b>21. <u>Reporting Requirements</u></b></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 day 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>Rule 335-3-16-.05(c)3.</p>
<p><b>22. <u>Emission Testing Requirements</u></b></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</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p>



## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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. 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><b>26. <u>Chemical Accidental Prevention Provisions</u></b>            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> <ul style="list-style-type: none"> <li>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</li> <li>(b) The owner or operator shall submit one of the following:               <ul style="list-style-type: none"> <li>(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,</li> <li>(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.</li> </ul> </li> </ul>	<p>40 CFR Part 68</p>
<p><b>27. <u>Display of Permit</u></b>            This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p><b>28. <u>Circumvention</u></b>            No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
<p><b>29. <u>Visible Emissions</u></b>            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</p>	<p>Rule 335-3-4-.01(1)</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	
<p><b>30. <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>	Rule 335-3-4-.03
<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>	Rule 335-3-5-.01
<p><b>31. <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>	Rule 335-3-4-.04
<p><b>32. <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>	Rule 335-3-1-.05
<p><b>33. <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) <u>Operation of Approved Monitoring</u></b></p>	40 CFR 64.7
<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>(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</p>	

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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> (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 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,</p>	

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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>(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>(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> <p>(i) Improved preventive maintenance practices.</p> <p>(ii) Process operation changes.</p> <p>(iii) Appropriate improvements to control methods.</p> <p>(iv) Other steps appropriate to correct control performance.</p>	<p>40 CFR 64.8</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).</p> <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> <p>(a) Failed to address the cause of the control device performance problems; or</p> <p>(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.</p> <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>(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>40 CFR 64.9</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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>(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>40 CFR 64.10</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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 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 for Electric Arc Furnace #1 with Baghouse

**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
001	Electric Arc Furnace #1 with Baghouse	PM	3.59(P) <sup>0.62</sup>	Rule 335-3-4-.04
001	Electric Arc Furnace #1 with Baghouse	PM	0.0052 gr/dscf	§60.272(a)(1)
001	Electric Arc Furnace #1 with Baghouse	PM	0.80 lb/ton steel produced	§63.10686(c)(1)
001	Electric Arc Furnace #1 with Baghouse	Opacity	3% from EAF	§60.272(a)(2)& (3)
001	Electric Arc Furnace #1 with Baghouse	Opacity	6% from shop due to EAF	§60.272(a)(2)&(3)
001	Electric Arc Furnace #1 with Baghouse	Opacity	See General Proviso # 29	Rule 335-3-4-.01(1)
Fugitives	Electric Arc Furnace #1 with Baghouse	Opacity	10% from Dust Handling Equipment	§60.272(a)(2)&(3)
	Miscellaneous Facility Wide	N/A	No motor vehicle scrap	40 CFR 63, Subpart YYYYY
	Miscellaneous Facility Wide	N/A	No motor vehicle scrap & No binder catalyst with methanol	40 CFR63, Subpart ZZZZZ

**Note: The Two Electric Arc Furnaces each have an individual baghouse stack and only one operates at a time.**

## Provisos for Electric Arc Furnace #1 with Baghouse

Federally Enforceable Provisos	REGULATIONS
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.01 “Visible Emissions” and Admin. Code r. 335-3-4.02 “Fugitive Dust and Fugitive Emissions”	Rule 335-3-4.01 Rule 335-3-4.02
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.04(1)	Rule 335-3-4.04(1)
3. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring”, to include General Proviso #33.	40 CFR Part 64
4. This facility is subject to the applicable requirements of 40 CFR Part 63, Subpart YYYYY, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace steelmaking facilities.” Specifically §63.10685.	40 CFR Part 63, Subpart YYYYY
5. These sources are subject to the applicable requirements of 40 CFR Part 60, Subpart AA, “Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and on or before August 17, 1983.”	40 CFR Part 60 Subpart AA
6. The facility is subject to the provisions of 40 CFR Part 63, Subpart ZZZZZ, NESHAP for HAPs for Iron and Steel Foundries Area Sources, Specifically §63.10885 and §63.10886.	40 CFR Part 63, Subpart ZZZZZ
<b>Emission Standards</b>	
1. The particulate emissions from the Electric Arc Furnace shall not exceed the allowable emission rate as set by Rule 335-3-4.04.	Rule 335-3-4.04(1)
2. Particulate matter emissions from each of the Electric Arc Furnaces control device shall not exceed 0.80 pounds per ton (lb/ton) of steel or alternatively the owner operator may elect to comply with a PM limit of 12 mg/dscm (0.0052 gr PM/dscf).	40 CFR §60.272(a)(1) 40 CFR §63.10686(b)(1)& (c)(1)
3. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to avoid any rule or regulation, the Director may order that the building or equipment in which the processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.	Rule 335-3-4-.02(3)
4. No owner or operator shall discharge into the atmosphere from an electric arc furnace (EAF) any gases which exit from a control device and exhibit 3 percent opacity or greater.	40 CFR §60.272(a)(2)

**Federally Enforceable Provisos**

**REGULATIONS**

<p>5. The facility shall not discharge into the atmosphere from an electric arc furnace (EAF) any gases which exit from a shop, due solely to the operations of EAF(s), exhibit 6 percent opacity or greater except:</p> <p>(i) Shop opacity less than 20 % may occur during charging.</p> <p>(ii) Shop opacity less than 40 % may occur during tapping.</p> <p>(iii) The shop opacity standards under paragraph (a)(3) of this section shall apply only during periods when the monitoring parameter limits specified in §60.274(b) are being established according to §60.274(c) and (g), unless the owner or operator elects to perform daily shop opacity observations in lieu of furnace static pressure monitoring as provided for under §60.273(d).</p> <p>(iv) Where capture system is operated such that the roof is operated such that the roof of the shop is closed during charge and the tap, and emissions to the atmosphere are prevented until the roof is opened after completion of the charge or the tap, the shop opacity standards shall apply for the length of time defined by charging or tapping periods.</p>	<p>40 CFR §60.272(a)(3)</p>
<p>6. The facility shall not discharge into the atmosphere from dust handling equipment any gases which exhibit 10 percent opacity or greater.</p>	<p>40 CFR §60.272(b)</p>
<p>Compliance and Performance Test Methods and Procedures</p>	
<p>1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.</p>	<p>Rule 335-3-1-.05</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>3. Performance testing shall be performed in accordance with §60.275.</p>	<p>40 CFR §60.275</p>
<p>4. Compliance with §63.10685 will be determined by certifying that incoming scrap does not contain motor vehicle scrap and by restricting utilization of incoming scrap that contains chlorinated plastics, lead or free organic liquids.</p>	<p>40 CFR §63.10685 Subpart YYYYY</p>
<p>5. Compliance with §63.10885 will be demonstrated by having a metallic scrap management program and by certifying that the scrap does not contain motor vehicle scrap. Compliance with §63.10886, the facility will not use a binder catalyst formulation that contains methanol.</p>	<p>40 CFR §63.10885 &amp; §63.10886 Subpart ZZZZZ</p>

**Federally Enforceable Provisos****REGULATIONS**

## Emission Monitoring

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| 1. Visible emission observations shall be conducted at least once per day for at least three 6-minute periods when the furnace is operating in the melting and refining period. All visible emission observations shall be conducted in accordance with method 9 of Appendix A to this Part. If visible emissions occur at more than one point, the opacity shall be recorded for any points where visible emissions are observed. Records shall be maintained of any 6-minute average that is in excess of the emission limit specified in §60.273(a).  | §60.273(c)<br>40 CFR Part 64 |
| 2. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.  | 40 CFR Part 64               |
| 3. The facility shall maintain daily records of the following information.<br><br>(a) Time and duration of each charge<br>(b) Time and duration of each tap<br>(c) All flow rate data in paragraph (b) of this section<br>(d) All pressure data obtained under paragraph (f) of this section or Method 9 data  | 40 CFR §60.274(a)            |
| 4. The facility shall perform a check and record on a once per shift basis furnace static pressure and either: check and record the control system fan amperes and damper positions on a once per shift basis; install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate through each separately ducted hood; or install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate at the control device inlet and check and record damper positions on a once-per-shift basis. The monitoring device(s) may be installed in any appropriate location in the exhaust duct such that reproducible flow rate monitoring will result. The flow rate monitoring device(s) shall have an accuracy of +/- 10 percent over its normal operating range and shall be calibrated according to the manufacturer's instructions. | 40 CFR §60.274(b)            |
| 5. The facility shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e pressure sensors, dampers, and damper switches) Perform observations of physical appearance of the equipment the hopper, fan, and cleaning cycle for proper operation and complete a visual check of all hoods and duckwork to verify proper operation of the baghouse, flow constrictions caused by dents or accumulated dust in duckwork or fan erosion. Any deficiencies shall be noted and proper maintenance performed.   | 40 CFR §60.274(e)            |

**Federally Enforceable Provisos****REGULATIONS**

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| <p>6. The facility shall perform an annual inspection of the baghouse 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>(b) Once per year: perform an internal inspection of the baghouse hoppers.</p> | <p>Rule 335-3-16-.05</p> |
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## Recordkeeping and Reporting Requirements

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| <p>1. The facility shall maintain a record of all Method 9 observations performed to satisfy monitoring requirements. 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>2. This facility is subject to the requirements of 40 CFR §60.276 (a-d) as applicable.</p>   | <p>40 CFR §60.276</p>                |
| <p>3. The facility shall record furnace static pressure and report pressures that exceed established values under §60.274(g) and operation of control system fan motor amperes at values exceeding +/- 15 percent of the value established under §60.274(c). Operation at such values shall be reported to the administrator semi-annually.</p> | <p>40 CFR §60.276(a)</p>             |
| <p>4. The owner or operator shall maintain records of all shop opacity observations made in accordance with §60.273(d). All shop opacity observations in excess of the emission limit specified in §60.272(a)(3) shall indicate a period of excess emission, and shall be report to the administrator semi-annually.</p>                        | <p>40 CFR §60.276(d)</p>             |
| <p>5. The facility shall maintain a record of all monthly and annual baghouse inspections to satisfy the requirements of periodic 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</p>             |
| <p>6. The visible emission observation results will be documented using an ADEM visible emissions observation report.</p>   | <p>Rule 335-3-16-.05</p>             |
| <p>7. The facility shall maintain a record of all visible emissions readings performed to satisfy monitoring requirements. 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</p>             |
| <p>8. The facility must submit a semi-annual compliance report to the Administrator according to the requirements in §63.10890 as applicable.</p>   | <p>40 CFR Part 63, Subpart ZZZZZ</p> |

**Federally Enforceable Provisos**

**REGULATIONS**

9. All six-minute periods during which the average opacity is three percent or greater shall indicate a period of excess emission, and shall be reported to the Administrator semi-annually.

40 CFR §60.273(b)

## Summary for Electric Arc Furnace #2 with Baghouse

**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	Electric Arc Furnace #2 with Baghouse	PM	3.59(P) <sup>0.62</sup>	Rule 335-3-4-.04
002	Electric Arc Furnace #2 with Baghouse	PM	0.0052 gr/dscf	§60.272(a)(1)
002	Electric Arc Furnace #2 with Baghouse	PM	0.80 lb/ton steel produced	§63.10686(c)(1)
002	Electric Arc Furnace #2 with Baghouse	Opacity	3% from EAF	§60.272(a)(2)
002	Electric Arc Furnace #2 with Baghouse	Opacity	6% from shop due to EAF	§60.272(a)(3)
002	Electric Arc Furnace #2 with Baghouse	Opacity	See General Proviso #29	Rule 335-3-4-.01(1)
Fugitives	Electric Arc Furnace #2 with Baghouse	Opacity	10% from Dust Handling Equipment	§60.272(b)
	Miscellaneous Facility Wide	N/A	No motor vehicle scrap	40 CFR 63, Subpart YYYYY
	Miscellaneous Facility Wide	N/A	No motor vehicle scrap & No binder catalyst with methanol	40 CFR63, Subpart ZZZZZ

**Note: The Two Electric Arc Furnaces each have an individual baghouse stack and only one operates at a time.**

## Provisos for Electric Arc Furnace #2 with Baghouse

Federally Enforceable Provisos	REGULATIONS
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.01 “Visible Emissions” and Admin. Code r. 335-3-4.02 “Fugitive Dust and Fugitive Emissions”	Rule 335-3-4.01 Rule 335-3-4.02
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.04(1)	Rule 335-3-4.04(1)
3. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring”, to include General Proviso #33.	40 CFR Part 64
4. This facility is subject to the applicable requirements of 40 CFR Part 63, Subpart YYYYY, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace steelmaking facilities.” Specifically §63.10685	40 CFR Part 63, Subpart YYYYY
5. These sources are subject to the applicable requirements of 40 CFR Part 60, Subpart AA, “Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and on or before August 17, 1983.”	40 CFR Part 60 Subpart AA
6. The facility is subject to the provisions of 40 CFR Part 63, Subpart ZZZZZ, NESHAP for HAPs for Iron and Steel Foundries Area Sources, Specifically §63.10885 and §63.10886.	40 CFR Part 63, Subpart ZZZZZ
<b>Emission Standards</b>	
1. The particulate emissions from the Electric Arc Furnace shall not exceed the allowable emission rate as set by Rule 335-3-4.04.	Rule 335-3-4.04.
2. Particulate matter emissions from each of the Electric Arc Furnaces control device shall not exceed 0.80 pounds per ton (lb/ton) of steel <b>or</b> alternatively the owner operator may elect to comply with a PM limit of 12 mg/dscm (0.0052 gr PM/dscf).	40 CFR §60.272(a)(1) 40 CFR §63.10686(b)(1)& (c)(1)
3. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to avoid any rule or regulation, the Director may order that the building or equipment in which the processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.	Rule 335-3-4-.02(3)
4. No owner or operator shall discharge into the atmosphere from an electric arc furnace (EAF) any gases which exit from a control device and exhibit 3 percent opacity or greater.	40 CFR §60.272(a)(2)

**Federally Enforceable Provisos**

**REGULATIONS**

<p>5. The facility shall not discharge into the atmosphere from an electric arc furnace (EAF) any gases which exit from a shop, due solely to the operations of EAF(s), exhibit 6 percent opacity or greater except:</p> <p>(i) Shop opacity less than 20 % may occur during charging.</p> <p>(ii) Shop opacity less than 40 % may occur during tapping.</p> <p>(iii) The shop opacity standards under paragraph (a)(3) of this section shall apply only during periods when the monitoring parameter limits specified in §60.274(b) are being established according to §60.274(c) and (g), unless the owner or operator elects to perform daily shop opacity observations in lieu of furnace static pressure monitoring as provided for under §60.273(d).</p> <p>(iv) Where capture system is operated such that the roof is operated such that the roof of the shop is closed during charge and the tap, and emissions to the atmosphere are prevented until the roof is opened after completion of the charge or the tap, the shop opacity standards shall apply for the length of time defined by charging or tapping periods.</p>	<p>40 CFR §60.272(a)(3)</p>
<p>6. The facility shall not discharge into the atmosphere from dust handling equipment any gases which exhibit 10 percent opacity or greater.</p>	<p>40 CFR §60.272(b)</p>
<p>Compliance and Performance Test Methods and Procedures</p>	
<p>1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.</p>	<p>Rule 335-3-1-.05</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>3. Performance testing shall be performed in accordance with §60.275.</p>	<p>40 CFR §60.275</p>
<p>4. Compliance with §63.10685 will be determined by certifying that incoming scrap does not contain motor vehicle scrap and by restricting utilization of incoming scrap that contains chlorinated plastics, lead or free organic liquids.</p>	<p>40 CFR §63.10685 Subpart YYYYY</p>
<p>5. Compliance with §63.10885 will be demonstrated by having a metallic scrap management program and by certifying that the scrap does not contain motor vehicle scrap. Compliance with §63.10886, the facility will not use a binder catalyst formulation that contains methanol.</p>	<p>40 CFR §63.10885 &amp; §63.10886 Subpart ZZZZZ</p>

**Federally Enforceable Provisos****REGULATIONS**

## Emission Monitoring

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| <p>1. All six-minute periods during which the average opacity is three percent or greater shall indicate a period of excess emission, and shall be reported to the Administrator semi-annually.</p> <p>2. Visible emission observations shall be conducted at least once per day for at least three 6-minute periods when the furnace is operating in the melting and refining period. All visible emission observations shall be conducted in accordance with method 9 of Appendix A to this Part. If visible emissions occur at more than one point, the opacity shall be recorded for any points where visible emissions are observed. Records shall be maintained of any 6-minute average that is in excess of the emission limit specified in §60.273(a)</p> <p>3. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p> <p>4. The facility shall maintain daily records of the following information.</p> <ul style="list-style-type: none"><li>(a) Time and duration of each charge</li><li>(b) Time and duration of each tap</li><li>(c) All flow rate data in paragraph (b) of this section</li><li>(d) All pressure data obtained under paragraph (f) of this section or Method 9 data</li></ul> <p>5. The facility shall perform a check and record on a once per shift basis furnace static pressure and either: check and record the control system fan amperes and damper positions on a once per shift basis; install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate through each separately ducted hood; or install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate at the control device inlet and check and record damper positions on a once-per-shift basis. The monitoring device(s) may be installed in any appropriate location in the exhaust duct such that reproducible flow rate monitoring will result. The flow rate monitoring device(s) shall have an accuracy of +/- 10 percent over its normal operating range and shall be calibrated according to the manufacturer's instructions.</p> | <p>40 CFR §60.273(b)</p> <p>§60.273(c)</p> <p>40 CFR Part 64</p> <p>40 CFR §60.274(a)</p> <p>40 CFR §60.274(b)</p> |
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**Federally Enforceable Provisos****REGULATIONS**

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| 6. The facility shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e pressure sensors, dampers, and damper switches) Perform observations of physical appearance of the equipment the hopper, fan, and cleaning cycle for proper operation and complete a visual check of all hoods and duckwork to verify proper operation of the baghouse, flow constrictions caused by dents or accumulated dust in duckwork or fan erosion. Any deficiencies shall be noted and proper maintenance performed. | 40 CFR §60.274(e) |
| 7. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.<br><br>(a) Once per year: inspect baghouse structure, access doors, door seals, and bags.<br>(b) Once per year: perform an internal inspection of the baghouse hoppers.  | Rule 335-3-16-.05 |

**Recordkeeping and Reporting Requirements**

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| 1. The facility shall maintain a record of all Method 9 observations performed to satisfy monitoring requirements. 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<br>Rule 335-3-16-.05 |
| 2. This facility is subject to the requirements of 40 CFR §60.276 (a-d) as applicable.   | 40 CFR §60.276                      |
| 3. The facility shall record furnace static pressure and report pressures that exceed established values under §60.274(g) and operation of control system fan motor amperes at values exceeding +/- 15 percent of the value established under §60.274(c). Operation at such values shall be reported to the administrator semi-annually. | 40 CFR §60.276(a)                   |
| 4. The owner or operator shall maintain records of all shop opacity observations made in accordance with §60.273(d). All shop opacity observations in excess of the emission limit specified in §60.272(a)(3) shall indicate a period of excess emission, and shall be report to the administrator semi-annually.                        | 40 CFR §60.276(d)                   |
| 5. The facility shall maintain a record of all monthly and annual baghouse inspections to satisfy the requirements of periodic 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                   |

**Federally Enforceable Provisos**

**REGULATIONS**

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| 6. The visible emission observation results will be documented using an ADEM visible emissions observation report.   | Rule 335-3-16-.05                |
| 7. The facility shall maintain a record of all visible emissions readings performed to satisfy monitoring requirements. 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                |
| 8. The facility must submit a semi-annual compliance report to the Administrator according to the requirements in §63.10890 as applicable.   | 40 CFR Part 63,<br>Subpart ZZZZZ |
| 9. All six-minute periods during which the average opacity is three percent or greater shall indicate a period of excess emission, and shall be reported to the Administrator semi-annually.   | 40 CFR §60.273(b)                |

## Summary Page for Charge Handling

### 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
Fugitives	Charge Handling	PM	N/A	Rule 335-3-4-.02

## Provisos for Charge Handling

Federally Enforceable Provisos	REGULATIONS
<p>Applicability</p> <p>1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-04-.02 “Fugitive Dust and Fugitive Emissions.”</p>	<p>Rule 335-3-04-.02</p>
<p>Emission Standards</p> <p>1. For 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 avoid 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 or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.</p>	<p>Rule 335-3-04-.02(3)</p>
<p>Compliance and Performance Test Methods and Procedures</p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p>	
<p>Emission Monitoring</p> <p>1. Particulate Matter (PM) emissions are regulated under ADEM Rule 335-3-4-.02. The charge handling areas will be monitored and action will be taken as necessary to minimize emissions.</p>	<p>Rule 335-3-04-.02</p>
<p>Recordkeeping and Reporting Requirements</p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p>	

## Summary Page for AOD Vessel with shared Baghouse

**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>
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	PM	3.59(P) <sup>0.62</sup>	Rule 335-3-4-.04
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	PM	0.0052 gr/dscf	§60.272(a)(1)
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	PM	0.80 lb/ton steel produced	§63.10686(c)(1)
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	Opacity	3% from EAF or AOD	§60.272(a)(2)
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	Opacity	6% from shop due to EAF or AOD	§60.272(a)(3)
003	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	Opacity	See General Proviso #29	Rule 335-3-4-.01(1)
Fugitives	(AOD)Argon-Oxygen Decarborization Vessel with shared Baghouse	Opacity	10% from Dust Handling Equipment	§60.272(b)

**\*Note: The AOD shares a baghouse with the Wheelabrator.**

## Provisos for AOD Vessel with shared Baghouse

Federally Enforceable Provisos	REGULATIONS
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.01 “Visible Emissions” and Admin. Code r. 335-3-4.02 “Fugitive Dust and Fugitive Emissions”	Rule 335-3-4.01 Rule 335-3-4.02
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.04(1)	Rule 335-3-4.04(1)
3. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring”, to include General Proviso #33.	40 CFR Part 64
4. This facility is subject to the applicable requirements of 40 CFR Part 63, Subpart YYYYY, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities.”	40 CFR Part 63 Subpart YYYYY
5. These sources are subject to the applicable requirements of 40 CFR Part 60, Subpart AAa, “Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarborization Vessels Constructed After August 17, 1983.”	40 CFR Part 60 Subpart AAa
<b>Emission Standards</b>	
1. The particulate emissions from the Argon-Oxygen Decarborization vessel shall not exceed the allowable emission rate as set by Rule 335-3-4.04.	Rule 335-3-4.04(1)
2. Particulate matter emissions from each of the Electric Arc Furnaces control device shall not exceed 0.80 pounds per ton (lb/ton) of steel or alternatively the owner operator may elect to comply with a PM limit of 12 mg/dscm (0.0052 gr PM/dscf).	40 CFR §60.272(a)(1) 40 CFR §63.10686(b)(1)& (c)(1)
3. Emissions shall not exceed 20% equivalent opacity as determined by a six-minute average except during one six-minute period in any 60 minute period the equivalent opacity may exceed 20% but shall not exceed 40%.	Rule 335-3-4-.01
4. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to avoid any rule or regulation, the Director may order that the building or equipment in which the processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.	Rule 335-3-4-.02(3)

**Federally Enforceable Provisos**

**REGULATIONS**

5. No owner or operator shall discharge into the atmosphere from an electric arc furnace (EAF) or an AOD vessel any gases which exit from a control device and exhibit 3 percent opacity or greater. 40 CFR §60.272a(a)(2)

6. The facility shall not discharge into the atmosphere from an electric arc furnace (EAF) or an AOD vessel any gases which exit from a shop, due solely to the operations of EAF(s) or AOD, exhibit 6 percent opacity or greater. 40 CFR §60.272a(a)(3)

7. The facility shall not discharge into the atmosphere from dust handling equipment any gases which exhibit 10 percent opacity or greater. 40 CFR §60.272a(b)

Compliance and Performance Test Methods and Procedures

1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions from the stack. Rule 335-3-1-.05

2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions. Rule 335-3-1-.05

3. Performance testing shall be conducted in accordance with §60.275a as required. 40 CFR §60.275a

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 weekly inspection of the baghouse to verify proper operation. The following activities shall be performed. Rule 335-3-16-.05

(a) Once per week: check hopper, fan and cleaning cycle for proper operation.

(b) Once per week: a visual check of all hoods and ductwork.

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

(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.

**Federally Enforceable Provisos****REGULATIONS**

- |   |                    |
|---|--------------------|
| 4. The facility shall perform a monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers and damper switches) Perform observations of the hopper, fan, and cleaning cycle for proper operation and complete a visual check of all hoods and duckwork to verify proper operation of the baghouse. | 40 CFR §60.274a(d) |
|---|--------------------|

## Recordkeeping and Reporting Requirements

- |  |                                     |
|--|-------------------------------------|
| 1. 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. Each record shall be maintained for a period of 5 years.  | 40 CFR Part 64<br>Rule 335-3-16-.05 |
| 2. The visible emission observation results will be documented using an ADEM visible emission observation report.  | Rule 335-3-16-.05                   |
| 3. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the monitoring requirements. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.  | Rule 335-3-16-.05                   |
| 4. Each owner or operator shall submit a written report of exceedances of the control device opacity to the Administrator semi-annually. For purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater.                            | 40 CFR §60.276a(b)                  |
| 5. The facility shall maintain records of all shop opacity observations made in accordance with §60.273a(d). all shop opacity observations in excess of the emission limit specified in §60.272a(a)(3) shall indicate a period of excess emission, and shall be reported to the administrator semi-annually. | 40 CFR §60.276a(g)                  |

## Summary Page for Pouring Casting and Cooling

**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
Fugitives	Pouring, Casting and Cooling	PM	N/A	Rule 335-3-4-.02
005	Pouring, Casting and Cooling	SO <sub>2</sub>	N/A	N/A
005	Pouring, Casting and Cooling	NO <sub>2</sub>	N/A	N/A
005	Pouring, Casting and Cooling	VOC	N/A	N/A
005	Pouring, Casting and Cooling	Opacity	See General Proviso #29	Rule 335-3-4-.01

## Provisos for Pouring, Casting and Cooling

Federally Enforceable Provisos	Regulations
<p>Applicability</p> <p>1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4.01 “Visible Emissions” and Admin. Code r. 335-3-4.02 “Fugitive Dust and Fugitive Emissions”</p>	<p>Rule 335-3-4.01 Rule 335-3-4.02</p>
<p>Emission Standards</p> <p>1. Emissions shall not exceed 20% equivalent opacity as determined by a six-minute average except during one six-minute period in any 60 minute period the equivalent opacity may exceed 20% but shall not exceed 40%.</p> <p>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 avoid 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 or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.</p>	<p>Rule 335-3-4-.01 Rule 335-3-04-.02(3)</p>
<p>Compliance and Performance Test Methods and Procedures</p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p>	
<p>Emission Monitoring</p> <p>2. Particulate Matter (PM) emissions are regulated under ADEM Rule 335-3-4-.02. The pouring, casting and cooling areas will be monitored and action will be taken as necessary to minimize emissions.</p>	<p>Rule 335-3-04-.02</p>
<p>Recordkeeping and Reporting Requirements</p> <p>1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.</p>	

## Summary Page for Abrasive Blasting with shared Baghouse

**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	Abrasive Blasting with Baghouse	PM	3.59(P) <sup>0.62</sup>	Rule 335-3-4-.04
007	Abrasive Blasting with Baghouse	PM	0.0052 gr/dscf	§60.272(a)(1)
007	Abrasive Blasting with Baghouse	PM	0.80 lb/ton steel produced	§63.10686(c)(1)
007	Abrasive Blasting with Baghouse	Opacity	See General Proviso #29	Rule 335-3-4-.01(1)
Fugitives	Abrasive Blasting with Baghouse	Opacity	20%	Rule 335-3-4-.01)

**Note: Emission limits apply when Abrasive Blasting is being operated at the same time as the AOD since they share the same baghouse.**

## Provisos for Abrasive Blasting with shared Baghouse

Federally Enforceable Provisos	Regulations
<b>Applicability</b>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-04-.02 "Fugitive Dust and Fugitive Emissions."	Rule 335-3-04-.02
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1)	Rule 335-3-4-.04(1)
<b>Emission Standards</b>	
1. Particulate matter emissions from the Abrasive Blasting control device shall not exceed 0.80 pounds per ton (lb/ton) of steel or alternatively the owner operator may elect to comply with a PM limit of 12 mg/dscm (0.0052 gr PM/dscf) when operating at the same time as the AOD. <b>(Note: Since Abrasive Blasting and the AOD share the same baghouse they will comply with the limits set for the AOD in §60.272(a)(1) and §63.10686(b)(1) &amp; (c)(1) when operating at same time.)</b>	40 CFR §60.272(a)(1) 40 CFR §63.10686(b)(1)& (c)(1)
2. The particulate emissions from the Abrasive Blasting shall not exceed the allowable emission rate as set by Rule 335- 3-4.04.	Rule 335-3-4.04(1)
3. Emissions shall not exceed 20% equivalent opacity as determined by a six-minute average except during one six-minute period in any 60 minute period the equivalent opacity may exceed 20% but shall not exceed 40%.	Rule 335-3-4-.01
4. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to avoid any rule or regulation, the Director may order that the building or equipment in which the processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.	Rule 335-3-4-.02(3)
<b>Emission Monitoring</b>	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.  (a) Once per week: check hopper, fan and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05

**Federally Enforceable Provisos**

**Regulations**

2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.
- (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.

Rule 335-3-16-.05

**Recordkeeping and Reporting Requirements**

- 1. 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. Each record shall be maintained for a period of 5 years.
- 2. The visible emission observation results will be documented using an ADEM visible emissions observation report.
- 3. 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. Each record shall be maintained for a period of 5 years.

Rule 335-3-16-.05

Rule 335-3-16-.05

Rule 335-3-16-.05

## **APPENDIX CAM**

### **Compliance Assurance Monitoring Requirements**

## CAM Plan for Electric Arc Furnace #1

	Indicator 1	Indicator 2	Indicator 3
<b>I. Indicator</b>	<b>Visible Emissions</b>	<b>Inspection/Maintenance</b>	<b>Reference Method Testing</b>
Measurement Approach	Measured using EPA Reference Method procedures	Daily inspection according to I/M checklist; maintenance performed as needed	Emissions testing using methods 1-4 and 5
<b>II. Indicator Range</b>	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 3% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	Not Applicable	Particulate Matter < 0.0052 gr/dscf
<b>III. Performance Criteria</b>			
A. Data Representativeness	Observe visible emissions at each exit for at least three six-minute periods per day	Inspections are performed at the baghouse	Test samples done at the exhaust of the baghouse
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified in Reference Method 9	Qualified personnel perform inspection	Use reference method protocols
D. Monitoring Frequency	An instantaneous observation will be performed daily.	Daily inspection	Initial/Subsequent Compliance Test
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	Records are maintained to document daily inspections and any required maintenance	As required by Methods 1-4 and 5
F. Averaging Period	Instantaneous	N/A	N/A

## CAM Plan for Electric Arc Furnace #2

	Indicator 1	Indicator 2	Indicator 3
<b>I. Indicator</b>	<b>Visible Emissions</b>	<b>Inspection/Maintenance</b>	<b>Reference Method Testing</b>
Measurement Approach	Measured using EPA Reference Method procedures	Daily inspection according to I/M checklist; maintenance performed as needed	Emissions testing using methods 1-4 and 5
<b>II. Indicator Range</b>	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 3% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	Not Applicable	Particulate Matter < 0.0052 gr/dscf
<b>III. Performance Criteria</b>			
G. Data Representativeness	Observe visible emissions at each exit for at least three six-minute periods per day	Inspections are performed at the baghouse	Test samples done at the exhaust of the baghouse
H. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
I. QA/QC Practices and Criteria	The observer will be certified in Reference Method 9	Qualified personnel perform inspection	Use reference method protocols
J. Monitoring Frequency	An instantaneous observation will be performed daily.	Daily inspection	Initial/Subsequent Compliance Test
K. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	Records are maintained to document daily inspections and any required maintenance	As required by Methods 1-4 and 5
L. Averaging Period			
	Instantaneous	N/A	N/A

## CAM Plan for AOD Vessel

	Indicator 1	Indicator 2	Indicator 3
<b>I. Indicator</b>	<b>Visible Emissions</b>	<b>Inspection/Maintenance</b>	<b>Reference Method Testing</b>
Measurement Approach	Measured using EPA Reference Method procedures	Daily inspection according to I/M checklist; maintenance performed as needed	Emissions testing using methods 1-4 and 5
<b>II. Indicator Range</b>	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 3% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	Not Applicable	Particulate Matter < 0.0052 gr/dscf
<b>III. Performance Criteria</b>			
M. Data Representativeness	Observe visible emissions at each exit for at least three six-minute periods per day	Inspections are performed at the baghouse	Test samples done at the exhaust of the baghouse
N. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
O. QA/QC Practices and Criteria	The observer will be certified in Reference Method 9	Qualified personnel perform inspection	Use reference method protocols
P. Monitoring Frequency	An instantaneous observation will be performed daily.	Daily inspection	Initial/Subsequent Compliance Test
Q. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	Records are maintained to document daily inspections and any required maintenance	As required by Methods 1-4 and 5
R. Averaging Period	Instantaneous	N/A	N/A

