


JEFFERSON COUNTY DEPARTMENT OF HEALTH
AIR POLLUTION PROGRAM
TITLE V OPERATING PERMIT

Permittee: **Amsted Rail Company**
 Location: **2100 Griffin Wheel Drive**
Bessemer, Alabama 35020
 Permit No: **4-07-0140-04**
 Issuance Date: **March 21, 2018**
 Expiration Date: **March 20, 2023**
 Nature of Business: **Steel Rail Wheel Foundry**

Emissions Unit No.	Emissions Unit Description
001	2 Electric Arc Furnaces (EAF) connected to a 140,000 SCFM Baghouse
002	3 Hot Wheel Grinders & 4 Hub Cutters Sharing a 40,000 SCFM Baghouse
004	Apex Grinder, Wheel Cleaner (Shot Blaster), and Peener with a 12,000 SCFM Baghouse
006	Core Baking Station
007	Cope Cleaner (Sand Blast Cleaning) with an 8,000 SCFM Baghouse
008	Drag Cleaner (Sand Blast Cleaning) with a 6,000 SCFM Baghouse
009	Sand Silo, Sand Heater, and Sand Coater with a Distribution Cyclone and a 6,000 SCFM Baghouse
010	Mold Machining & Repair with a 7,500 SCFM Baghouse
013	Ovens and Furnaces Combusting Natural Gas
014	Lime Storage Silo with a 1,500 SCFM Bin Vent Filter
016	Cope Spray with Baffles on Spray Booth
017	Drag Spray with Baffles on Spray Booth
018	Fuschite Silo with Fabric Filter

This Permit is issued pursuant to and is conditioned upon the compliance with the provisions of the Jefferson County Board of Health Air Pollution Control Rules and Regulations, the applicable requirements of the Clean Air Act implementation plan for Alabama approved or promulgated by the United States Environmental Protection Agency (EPA) through rulemaking under title I of the Clean Air Act (identified in 40 CFR 52, Subpart B) and other applicable requirements as defined in section 18.1.1(e) of the Jefferson County Board of Health Rules and Regulations, Section 18 of the Alabama Air Pollution Control Act of 1971, Act No. 769 (Regular Session, 1971), Section 22-28-16 of the Alabama Air Pollution Control Act as amended, Orders of the Jefferson County Board of Health, Orders of the Director of the Alabama Department of Environmental Management (ADEM), and any applicable local, state or federal Court Order. This Permit is subject to the accuracy of all information submitted relating to the permit application and to the conditions appended hereto. It is valid from the date of issuance until the expiration date and shall be posted or kept under file at the source location described above and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it. This Permit is not transferable.

Pursuant to the Clean Air Act, conditions of this permit are federally enforceable by EPA, The Jefferson County Board of Health, ADEM and citizens in general. However, provisions that are not required by the Clean Air Act or under any of its applicable requirements, are considered to be Jefferson County provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate Sections of this Operating Permit and are specifically identified as not being federally enforceable.


 Jonathan Stanton, Director
 Environmental Health Services
 Approved: Mark Wilson, M.D.
 Health Officer



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In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit. For each citation to a Jefferson County Board of Health regulation provided in connection with a permit condition (other than for those permit conditions that are specifically identified in the permit as not being federally enforceable), Appendix A to this permit identifies the corresponding ADEM regulation that has been approved by EPA as part of the Clean Air Act implementation plan for Alabama (identified in 40 CFR 52, Subpart B). The corresponding ADEM regulations, together with the cited Jefferson County Board of Health regulations, serve as the origin and authority for the associated permit term or condition.

GENERAL PERMIT CONDITIONS

No.	Federally Enforceable General Permit Conditions	Regulations
Definitions		
1.	<p>For the purposes of this Major Source Operating Permit, the following terms will have the meanings ascribed to in this permit:</p> <p>"40 CFR 51" shall be an acronym for Part 51 of Title 40 of the Code of Federal Regulations.</p> <p>"40 CFR 60" shall be an acronym for Part 60 of Title 40 of the Code of Federal Regulations.</p> <p>"40 CFR 61" shall be an acronym for Part 61 of Title 40 of the Code of Federal Regulations.</p> <p>"40 CFR 63" shall be an acronym for Part 63 of Title 40 of the Code of Federal Regulations.</p> <p>"40 CFR 98" shall be an acronym for Part 98 of Title 40 of the Code of Federal Regulations.</p> <p>"Act" shall mean the Clean Air Act, as amended, 42 U.S.C. 7401, et seq. as amended by Pub. L. 101-549, 104 Stat. 2399.</p> <p>"ADEM" shall mean the Alabama Department of Environmental Management.</p> <p>"Annual metal melt production" means the quantity of metal melted in a metal melting furnace or group of all metal melting furnaces at the iron and steel foundry in a given calendar year. For the purposes of 40 CFR 63, Subpart ZZZZZ, metal melt production is determined on the basis on the quantity of metal charged to each metal melting furnace; the sum of the metal melt production for each furnace in a given calendar year is the annual metal melt production of the foundry.</p> <p>"Bag leak detection system" means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, electrodynamic, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.</p> <p>"Binder chemical" means a component of a system of chemicals used to bind sand together into molds, mold sections, and cores through chemical reaction as opposed to pressure.</p> <p>"Capture system" means the collection of components used to capture gases and fumes released from one or more emissions points and then convey the captured gas stream to a control device or to the atmosphere. A capture system may include, but is not limited to, the following components as applicable to a given capture system design: duct intake devices, hoods, enclosures, ductwork, dampers, manifolds, plenums, and fans.</p> <p>"Carbon dioxide equivalent or CO₂e" means the number of metric tons of CO₂ emissions with the same global warming potential as one metric ton of another greenhouse gas, and is calculated using Equation A-1 of 40 CFR 98.</p> <p>"Chlorinated plastics" means solid polymeric materials that contain chlorine in the polymer chain, such as polyvinyl chloride (PVC) and PVC copolymers.</p> <p>"Continuous monitoring system (CMS)" is a comprehensive term that may include, but is not</p>	<p>1.3 63.2 63.10906 98.2</p>

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	<p>limited to, continuous emission monitoring systems, continuous opacity monitoring systems, continuous parameter monitoring system or other manual or automatic monitoring that is used for demonstrating compliance with an applicable regulation on a continuous basis as defined by the regulation.</p> <p>“Continuous parameter monitoring system (CPMS)” means the total equipment that may be required to meet the data acquisition and availability requirements of this part, used to sample, condition (if applicable), analyze and provide a record of process or control system parameters.</p> <p>“Control device” means the air pollution control equipment used to remove particulate matter from the effluent gas stream generated by a metal melting furnace.</p> <p>“Department” shall mean the Jefferson County Department of Health.</p> <p>“Deviation” means any instance in which the permittee fails to meet any requirement or obligation established by regulation, including but not limited to any emission limitation, operating limit, work practice standard, or any permit term or condition. For 40 CFR 63, Subpart ZZZZZ, deviation means any instance in which an affected source or an owner or operator of such an affected source:</p> <ol style="list-style-type: none"> 1. Fails to meet any requirement or obligation established by Subpart ZZZZZ including, but not limited to, any emissions limitation (including operating limits), management practice, or operation and maintenance requirement; 2. Fails to meet any term or condition that is adopted to implement an applicable requirement in Subpart ZZZZZ and that is included in the operating permit for any iron and steel foundry required to obtain such a permit; or 3. Fails to meet any emissions limitation (including operating limits) or management standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart. <p>“Electric arc furnace” means a vessel in which forms of iron and steel such as scrap and foundry returns are melted through resistance heating by an electric current flowing through the arcs formed between the electrodes and the surface of the metal and also flowing through the metal between the arc paths.</p> <p>“Emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God. These are situations that require immediate corrective actions(s) to restore normal operation, and that cause the facility to exceed a technology based emission limitation set by the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>“Emissions unit” means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under Section 112(b) of the Act.</p> <p>“EPA” means the U.S. Environmental Protection Agency.</p> <p>“Foundry operations” mean all process equipment and practices used to produce metal castings for shipment. Foundry operations include: Mold or core making and coating; scrap handling and preheating; metal melting and inoculation; pouring, cooling, and shakeout; shotblasting, grinding, and other metal finishing operations; and sand handling.</p> <p>“Free liquids” means material that fails the paint filter liquids test by EPA Method 9095B, Revision 2, November 1994 (incorporated by reference—see §63.14). That is, if any portion of the material passes through and drops from the filter within the 5-minute test period, the material contains free liquids.</p> <p>“Fugitive emissions” means any pollutant released to the atmosphere that is not discharged</p>	

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	<p>through a system of equipment that is specifically designed to capture pollutants at the source, convey them through ductwork, and exhaust them using forced ventilation. Fugitive emissions include pollutants released to the atmosphere through windows, doors, vents, or other building openings. Fugitive emissions also include pollutants released to the atmosphere through other general building ventilation or exhaust systems not specifically designed to capture pollutants at the source.</p> <p>“Furfuryl alcohol warm box mold or core making line” means a mold or core making line in which the binder chemical system used is that system commonly designated as a furfuryl alcohol warm box system by the foundry industry.</p> <p>“GHG” shall be an acronym for greenhouse gas.</p> <p>“HAP” shall be an acronym for Hazardous Air Pollutant.</p> <p>“Hazardous Air Pollutant” means any of the substances listed in Appendix D of the Rules and Regulations.</p> <p>“Iron and steel foundry” means a facility or portion of a facility that melts scrap, ingot, and/or other forms of iron and/or steel and pours the resulting molten metal into molds to produce final or near final shape products for introduction into commerce. Research and development facilities, operations that only produce non-commercial castings, and operations associated with nonferrous metal production are not included in this definition.</p> <p>“Malfunction” means any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>“Mercury switch” means each mercury-containing capsule or switch assembly that is part of a convenience light switch mechanism installed in a vehicle.</p> <p>“Metal charged” means the quantity of scrap metal, pig iron, metal returns, alloy materials, and other solid forms of iron and steel placed into a metal melting furnace. Metal charged does not include the quantity of fluxing agents or, in the case of a cupola, the quantity of coke that is placed into the metal melting furnace.</p> <p>“Metal melting furnace” means a cupola, electric arc furnace, electric induction furnace, or similar device that converts scrap, foundry returns, and/or other solid forms of iron and/or steel to a liquid state. This definition does not include a holding furnace, an argon oxygen decarburization vessel, or ladle that receives molten metal from a metal melting furnace, to which metal ingots or other material may be added to adjust the metal chemistry.</p> <p>“Mold or core making line” means the collection of equipment that is used to mix an aggregate of sand and binder chemicals, form the aggregate into final shape, and harden the formed aggregate. This definition does not include a line for making greensand molds or cores.</p> <p>“Motor vehicle” means an automotive vehicle not operated on rails and usually is operated with rubber tires for use on highways.</p> <p>“Motor vehicle scrap” means vehicle or automobile bodies, including automobile body hulks, that have been processed through a shredder. Motor vehicle scrap does not include automobile manufacturing bundles, or miscellaneous vehicle parts, such as wheels, bumpers, or other components that do not contain mercury switches.</p> <p>“NESHAP” shall be an acronym for “National Emission Standards for Hazardous Air Pollutants.”</p> <p>“Nonferrous metal” means any pure metal other than iron or any metal alloy for which an element other than iron is its major constituent in percent by weight.</p>	

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	<p>“Permittee” means the holder of an operating permit issued by the Department.</p> <p>“Pollution prevention” means source reduction as defined under the Pollution Prevention Act of 1990 (e.g.. equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control), and other practices that reduce or eliminate the creation of pollutants through increased efficiency in the use of raw materials, energy, water, or other resources, or protection of natural resources by conservation.</p> <p>“Pouring station” means the fixed location to which molds are brought in a continuous or semicontinuous manner to receive molten metal, after which the molds are moved to a cooling area.</p> <p>“Responsible official” means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and the delegation of authority to such representatives is approved in advance by the Department.</p> <p>“Rules and Regulations” shall mean the Jefferson County Board of Health Air Pollution Control Rules and Regulations.</p> <p>“Scrap preheater” means a vessel or other piece of equipment in which metal scrap that is to be used as melting furnace feed is heated to a temperature high enough to eliminate volatile impurities or other tramp materials by direct flame heating or similar means of heating. Scrap dryers, which solely remove moisture from metal scrap, are not considered to be scrap preheaters for purposes of 40 CFR 63, Subpart ZZZZZ.</p> <p>“Scrap provider” means the person (including a broker) who contracts directly with an iron and steel foundry to provide motor vehicle scrap. Scrap processors such as shredder operators or vehicle dismantlers that do not sell scrap directly to a foundry are not scrap providers.</p> <p>“Source” shall mean any building, structure, facility, installation, article, machine, equipment, device, or other contrivance which emits or may emit any air contaminant. Any activity which utilizes abrasives or chemicals for cleaning or any other purpose (such as cleaning the exterior of buildings) which emits air contaminants shall be considered a source.</p> <p>“Stationary Source” means any building, structure, facility or installation that emits or may emit any regulated pollutant as defined in Part 18.1 of the Rules and Regulations or any pollutant listed in Appendix D of the Rules and Regulations.</p> <p>“Total metal HAP” means, for the purposes of 40 CFR 63, Subpart ZZZZZ, the sum of the concentrations of antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, mercury, nickel, and selenium as measured by EPA Method 29 (40 CFR 60, Appendix A). Only the measured concentration of the listed analytes that are present at concentrations exceeding one-half the quantitation limit of the analytical method are to be used in the sum. If any of the analytes are not detected or are detected at concentrations less than one-half the quantitation limit of the analytical method, the concentration of those analytes will be assumed to be zero for the purposes of calculating the total metal HAP for 40 CFR 63, Subpart ZZZZZ.</p> <p>“Visible emission” means the observation of an emission of opacity or optical density above the threshold of vision.</p> <p>“VOC” shall be an acronym for volatile organic compound.</p> <p>“Volatile Organic Compound” shall mean any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such</p>	

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	organic compound other than those listed under Part 1.3 of the Rules and Regulations and/or under 40 CFR §51.100(s)(1).	
	General Permit Conditions	
2.	<p><u>Basis for Permit</u> This Operating Permit is issued based on provisions contained in all existing Jefferson County Board of Health Air Pollution Control Rules and Regulations (hereinafter called Rules and Regulations in this permit). In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter called the permittee in this permit) to comply with such new Rules and Regulations. Additions and revisions to the conditions in this Operating Permit will be made by the Jefferson County Department of Health (hereinafter called the Department), if necessary, to assure that the Rules and Regulations are not violated.</p>	AL Act 769
3.	<p><u>Authority</u> Nothing in this Operating Permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Alabama Air Pollution Control Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.</p>	AL Act 769
4.	<p><u>Acceptance of Permit</u> The permittee is required to bring the operation of a source within the standards of Paragraph 18.2.8(a) of the Rules and Regulations. Commencing construction or operation of the source shall be deemed acceptance of all conditions specified. A Title V Operating Permit with revised conditions may be issued upon receipt of a new application if the permittee demonstrates that the source can operate within the standard of Paragraph 18.2.8(a) of the Rules and Regulations under the revised conditions. This Title V permit supersedes all permits previously issued by the Department to this facility. The permittee shall return the expired permit(s) to the Department within 30 days after this permit is issued.</p>	18.2.4
5.	<p><u>Compliance With Existing and Future Regulations</u> A. The permittee shall comply with all conditions of the Rules and Regulations. B. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. C. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit, and shall follow any more detailed schedule of compliance set forth in the applicable requirement. D. The permittee shall be subject to MACT standards from the date of publication by EPA.</p>	18.5.6 18.4.8(h) 18.7.3 18.7.6
6.	<p><u>Noncompliance</u> Noncompliance with a permit will constitute a violation of the Act and the Rules and Regulations and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.</p>	18.5.6
7.	<p><u>Compliance Defense</u> The permittee shall not use as a defense in an enforcement action, that maintaining compliance with permit conditions would have required halting or reducing the permitted activity.</p>	18.5.7
8.	<p><u>Credible Evidence</u> Any credible evidence or information relevant to whether a source may have been in compliance with applicable requirements can be used to establish whether or a not an owner or operator has violated or is in violation of any rule or standard in these Regulations.</p>	1.18
9.	<p><u>Circumvention</u> 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 contaminants which would otherwise violate these rules and regulations.</p>	1.15 63.4(b)
10.	<p><u>Bypass Prohibited</u> The permittee shall not bypass, without prior approval from this Department, any air pollution control device. The permittee shall not shut down any air pollution control device unless such shutdown is accompanied by the corresponding shutdown of the respective source which the device is intended to control.</p>	18.2.4

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11.	<p><u>Shutdown of Control Equipment</u> In the case of shutdown of air pollution control equipment for scheduled maintenance, the intent shall be reported to this Department at least 24 hours prior to the planned shutdown unless the scheduled shutdown is accompanied with the shutdown of the source being controlled, including the information listed in Section 1.12.1.</p>	1.12.1
12.	<p><u>Maintenance of Controls</u> If a control device is installed at the facility, the following requirements apply:</p> <p>A. The permittee shall equip each fabric filter particulate matter control device with a pressure differential measuring device to measure the pressure drop across the filter media in the control device. The device shall be installed in a location which is easily accessible for inspection by Department personnel.</p> <p>B. All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in accordance with the manufacturer's specifications or alternative procedures approved by the Department 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 emissions of air contaminants shall be maintained near the source and provided to the Department upon request.</p> <p>C. The permittee shall conduct routine inspections on all required control equipment. All inspection results and repair work performed on the pollution control device shall be recorded. These records shall be kept in a permanent form suitable for inspection.</p>	18.2.4
13.	<p><u>Nothing in this Operating Permit shall alter or affect the following:</u></p> <p>A. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;</p> <p>B. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;</p> <p>C. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act; or</p> <p>D. The ability of EPA to obtain information from a source pursuant to Section 114 of the Act.</p>	18.10.3
14.	<p><u>Additional Information</u> The permittee shall submit any additional information to the Department to supplement or correct an application promptly after becoming aware of the need for additional or corrected information. Also, the permittee shall submit additional information concerning any new requirements which have become applicable after a complete application has been filed but before a draft permit is released.</p>	18.4.7
15.	<p><u>Display and Availability of Permit</u> The permittee shall keep this Operating Permit under file or on display at all times at the site where the source is located and shall make the permit available for inspection by any and all persons who may request to see it.</p>	18.2.2
16.	<p><u>Payment of Fees</u> The permittee must have paid all fees required by the Rules and Regulations or the Operating Permit is not valid. Payment of operating permit fees required under Chapter 16 of the Rules and Regulations shall be made on or before the date specified under Section 16.5.1 of the Rules and Regulations of each year. Failure to make payment of fees within 30 days of the specified date shall cause the assessment of a late fee of 3% (of the original fee) per month or fraction thereof.</p>	18.5.11 Chapter 16 16.5
17.	<p><u>Transfer</u> 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 Subparagraph 18.13.1(a)(5) of the Rules and Regulations.</p>	18.2.6
18.	<p><u>New Air Pollution Sources and Changes to Existing Units</u> A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.</p>	1.5.15 63.5(d) 63.9(j)
19.	<p><u>Construction Not In Accordance with Applications</u> If the source permitted herein has not been constructed in accordance with the Operating Permit</p>	18.2.8(e)

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	application and if the changes noted are of a substantial nature in that the amount of air contaminants emitted by the source may be increased or in that the effect is unknown, then the Operating Permit shall be revoked. No further application for an Operating Permit shall be accepted until the source has been reconstructed in accordance with the Operating Permit or until the permittee has proven to the Department that the change will not cause an increase in the emission of air contaminants.	
20.	<p><u>Expiration</u> A source's right to operate shall terminate upon the expiration of this Operating Permit unless a timely complete renewal application has been submitted at least 6 months, but not more than 18 months before the date of expiration or the Department has taken final action approving the source's application for renewal by the expiration date. The expiration date of this Operating Permit is printed on the first page of this permit.</p>	18.4.3 18.5.2 18.12.2(b)
21.	<p><u>Revocation</u> This Operating Permit may be revoked for any of the following reasons: A. Failure to comply with any conditions of the permit; B. Failure to establish and maintain such records, make such reports, install, use and maintain such monitoring equipment or methods; and sample such emissions in accordance with such methods at such locations, intervals and procedures as may be prescribed in accordance with Section 1.9.2 of the Rules and Regulations; C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility; D. Failure to comply with the Rules and Regulations; or E. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations.</p>	18.2.9
22.	<p><u>Severability</u> In case of legal challenge to any portion of this Title V Operating Permit, the remainder of the permit conditions shall continue in force.</p>	18.5.5
23.	<p><u>Reopening for Cause</u> Under any of the following circumstances, this Operating Permit will be reopened and revised prior to the expiration of the permit: A. Additional applicable requirements under the Clean Air Act become applicable to the permittee with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirements. 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. B. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. C. The Department, ADEM 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. D. The Administrator, ADEM or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	18.13.5
24.	<p><u>Changes or Termination for Cause – No Stay of Permit Conditions</u> 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 a planned change or anticipated noncompliance will not stay any permit condition.</p>	18.5.8
25.	<p><u>Requests for Information</u> The permittee shall furnish 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 copies of records required to be kept by the permit to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance.</p>	18.5.10

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26.	<p><u>Entry and Inspections</u> The permittee shall allow the Department or authorized representative, upon presentation of credentials and other documents that may be required by law, to conduct the following:</p> <ul style="list-style-type: none"> A. Enter upon the permittee's premises where a source is located or emissions related activity is conducted or where records are kept pursuant to the permit conditions; B. Review and/or copy at reasonable times any records kept pursuant to the permit conditions; C. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices or operations required by the permit; and D. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements. <p>Denial of access upon proper identification is grounds for permit revocation.</p>	18.7.2 18.2.9(d)
27.	<p><u>Flexibility Changes</u> Certain changes (per Section 502 (b)(10) of the Act) can be made to this Operating Permit without a revision if no modification as defined in the Rules and Regulations would occur and the changes do not exceed the emissions allowed under this permit provided that written notification is sent to the Department and EPA at least 7 days before the change is made. The written notification shall describe the proposed change, the date of the change, any change in emissions, and any term or condition of the permit which is no longer valid due to the change.</p>	18.13.2
28.	<p><u>Minor Permit Modifications</u> Minor permit modification procedures may be used only for those permit modifications that:</p> <ul style="list-style-type: none"> A. Do not violate any applicable requirement; B. Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit; C. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; D. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject; E. Are not modifications under any provision of title I of the Act; and F. Are not required by Part 18.12 of this Chapter to be processed as a significant modification. <p>An application requesting the use of minor permit modification procedures shall meet the requirements of Section 18.4.8 relative to the modification and shall include the information listed at 18.3.3(b).</p>	18.13.3(a)(1) 18.13.3
29.	<p><u>Significant Modifications</u> Modifications that are significant modifications under the PSD (Part 2.4) or nonattainment (Part 2.5) regulations, are modifications under the NSPS or NESHAPS regulations, or otherwise do not meet the requirements for minor permit modifications from Section 18.13.3 of the Rules and Regulations must be incorporated in the Operating Permit using the requirements for sources initially applying for an Operating Permit, including those for applications, public participation, review by affected States, review by ADEM, and review by EPA, as described in Parts 18.4 and 18.15 of the Rules and Regulations.</p>	18.13.4
30.	<p><u>Property Rights and Privileges</u> No property rights of any sort or any exclusive privilege are conveyed through the issuance of this Operating Permit.</p>	18.5.9
31.	<p><u>Alternative Operating Scenarios</u> No alternative operating scenarios were identified by the permittee in its application.</p>	18.5.13
32.	<p><u>Economic Incentives</u> No permit revision shall be required under any approved economic incentives, marketable permit emissions trading and other similar programs or processes for changes that are provided for in the Operating Permit.</p>	18.5.12
33.	<p><u>Trading of Emissions Increases or Decreases</u> The permittee did not request authorization to trade emissions increases and decreases.</p>	18.5.14

No.	Federally Enforceable General Permit Conditions	Regulations
34.	<p><u>Emission Reduction Plan</u> Upon notification by this Department, the permittee shall submit an Air Pollution Emission Reduction Plan in a format approved by this Department concerning air contaminant emissions reductions to be taken during declared air pollution episodes.</p>	18.2.8(b)
35.	<p><u>Emergency Provision</u></p> <p>A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emissions limitation under the Operating Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that:</p> <ol style="list-style-type: none"> 1. The permittee can identify the cause(s) of the emergency; 2. At the time of the emergency, the permitted facility was being properly operated; 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; 4. The permittee submitted notice of the emergency to the Health Department within 2 working days of the time when emission limitations were exceeded due to the emergency, including those deviations attributable to upset conditions as defined in the permit, the probable cause of said deviations, and any corrective actions or preventive measures that were taken; 5. The permittee submitted a written documentation of what was reported in the notice of the emergency to the Department within 5 working days of the emergency; and 6. The permittee immediately documented the emergency exceedance in an "Emergency Log", which shall be maintained for 5 years in a form suitable for inspection upon request by a representative of the Department. <p>C. This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p> <p>D. The Health Officer shall be the sole determiner of whether an emergency has occurred.</p>	18.11.2
36.	<p><u>Obnoxious Odors</u> This Operating Permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Department inspectors, measures to abate the odorous emissions shall be taken upon determination by this Department that these measures are technically and economically feasible.</p>	6.2.3
37.	<p><u>Title IV Requirements (Acid Rain Program)</u> Where an applicable requirement of Chapter 18 of the Rules and Regulations is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act (the acid rain program), both provisions shall be incorporated into the permit and shall be enforceable by the Department. Emissions exceeding any allowances that the permittee lawfully holds under title IV of the Act or the regulations promulgated thereunder are prohibited. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the permittee, however, allowances may not be used as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in the regulations promulgated pursuant to Title IV of the Act.</p>	18.5.1(b) 18.5.4
38.	<p><u>Title VI Requirements (Refrigerants)</u> Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 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</p>	40 CFR 82 18.1.1(e)(10) 18.1.1(w)(4)

No.	Federally Enforceable General Permit Conditions	Regulations
	<p>equipment specified in 40 CFR 82, Subpart F.</p> <p>A. 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 such device except as provided in 40 CFR 82, Subpart F.</p> <p>B. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the U.S. EPA and the Department as required.</p>	
39.	<p><u>Asbestos Demolition and Renovation</u> Demolition and renovation activities at this facility are subject to the National Emission Standard for Asbestos, 40 CFR 61, Subpart M. To determine the applicable requirements of the Standard, the permittee must thoroughly inspect the affected part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos-containing materials, prior to the commencement of the demolition or renovation operation. The permittee shall comply with all applicable sections of the Standard, including notification requirements, emission control and waste disposal procedures. The permittee shall also ensure that anyone performing asbestos-related work at the facility is trained and certified according to the Alabama Department of Environmental Management's regulations for Asbestos Contractor Certification.</p>	40 CFR 61 14.2.12 14.2.12(a)(1)
40.	<p><u>Prevention of Accidental Releases</u> The permittee shall comply with the requirements of Section 112 (r) of the Act to prevent accidental releases of any substance listed pursuant to Section 112 (r) or any other extremely hazardous substance.</p>	112 (r)
41.	<p><u>Testing</u> A source emissions test may be required by this Department at any time. The Administrator may require a performance test for a source subject to NESHAP at any time authorized by section 114 of the Clean Air Act. The permittee shall provide each point of emission with sampling ports, ladders, stationary platforms, and other safety equipment to facilitate testing. The permittee shall notify the Department in writing at least 30 days prior to conducting any required emissions test on any source (60 days for a source subject to NESHAP, including but not limited to 40 CFR 63, Subpart ZZZZZ). This notice shall state the source to be tested, the proposed time and date(s) of the test, the purpose of the test, and the methods to be used. The methods for such testing shall be in accordance with procedures established by 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63 and any emissions unit specific permit requirements. Testing shall occur during normal operating conditions. The permittee shall submit the results of all emissions tests in electronic form to this Department within a time period specified by this Department; however, not to exceed 45 days from the test completion date. For a large foundry subject to 40 CFR 63, Subpart ZZZZZ, that is required to conduct a performance test or other initial compliance demonstration, submit a notification of compliance status according to the requirements of §63.9(h)(2)(ii). For opacity performance tests, the notification of compliance status may be submitted with the semiannual Title V monitoring report.</p>	1.9.1 1.10.3 18.2.5 18.2.8(c) 63.7(a)(3) 63.7(b) 63.7(e)(1) 63.9(e) 63.10898
Facility-Specific Conditions		
42.	<p><u>Major HAP Source NESHAP Avoidance</u> The plant wide potential emissions of any single hazardous air pollutant (HAP) and any combination of HAPs shall remain less than 10 tons/yr and 25 tons/yr, respectively, to avoid the applicability of 40 CFR 63, Subpart EEEEE. Specific restrictions on phenol emissions are located in the Requirements for Mold and Core Making.</p>	18.1.1(q)(1) 63.2 63.7681
43.	<p><u>Fugitive Dust</u> The permittee shall take reasonable precautions to prevent dust from any operation, process, handling, storage, or transportation activity, including dust from paved and unpaved roads and grounds in the source permitted herein from becoming airborne. The permittee shall not cause or allow the discharge of visible emissions which travel beyond the property line of the facility. Airborne fugitive dust emissions shall be prevented and addressed as needed and as appropriate to weather conditions using any or all of the following pre-approved control measures for the following sources of fugitive dust: A. For foundry operations: by the installation, operation of properly maintained capture and</p>	6.2.1 6.2.2 18.2.8(a)

No.	Federally Enforceable General Permit Conditions	Regulations
	<p>control systems for foundry operations and by closing building openings when/if wind compromises the effectiveness of capture systems;</p> <p>B. For scrap storage: wet suppression and shielding storage piles from wind;</p> <p>C. For scrap handling: following good work practices to minimize fugitive dust resulting from the disturbance of the scrap piles, including but not limited to minimizing the active working areas of the piles and taking wind speed and direction into account when handling scrap;</p> <p>D. For plant roads and grounds: mechanical cleaning (vacuuming, washing or sweeping), wet suppression, reducing the speed of vehicular traffic to a point below that at which dust emissions are created, paving or using a chemical dust suppressant on unpaved roads; and</p> <p>E. Other dust control methods not listed above may be used if approved by the Department. Wet suppression may be accomplished by the application of water with or without the addition of surfactants, wetting agents or other additives to increase the effectiveness of wet suppression. Manufacturer's documentation of the contents of any chemical, surfactant, wetting agent, or other additive used for dust suppression shall be maintained and readily made available upon request by the Department.</p>	
44.	<p>Retention of Records Records of all required monitoring data, fuel consumption, analyses, reports, MSDS, and other support information shall be retained for a minimum of 5 years from the date when the record was generated. Records must be readily accessible and suitable for inspection. Each record must be kept onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, but may be maintained offsite for the remaining 3 years. Records may be kept in hard copy or electronically. Specific records to be made and retained are listed in the emission unit conditions.</p>	18.5.3(b) 63.10890(d) 63.10(b)(1)
45.	<p>Timing for Submission of Reports and Notifications The permittee shall submit all reports and notifications required by any permit condition and by any applicable NESHAP and/or NSPS to the Department in electronic form. The reports may be sent by U. S. mail or by electronic mail. Reports submitted by US mail shall be postmarked on or before the due date. Reports submitted by electronic mail shall be received on or before the due date. The information to be included in each report is listed in General Conditions 46 – 48 below. Any document required to be submitted by this permit shall contain a certification by a responsible official that meets the requirements of Section 18.4.9. The following reports are required to be submitted on the following schedule:</p> <p>A. Annual Production and Emissions Report, due February 10 of each year covering the pervious calendar year.</p> <p>B. Annual Title V Compliance Certification, covering the period from December 8 to December 7 of the following year, shall be submitted by January 8 each calendar year.</p> <p>C. 6-Month Monitoring Report for Title V and 40 CFR 63, Subpart ZZZZZ, due July 31 (covering January 1 to June 30) and January 31 (covering July to December of the previous year).</p> <p>D. Episodic prompt reporting of malfunctions, deviations, emergencies and violations from the permit within 2 working days of the malfunction, deviation, emergency or discovery of a violation.</p> <p>E. Results of performance tests no later than 60 days after the completion of testing and results of visible emissions observations within 30 days after completion.</p> <p>F. Notifications as follows:</p> <ol style="list-style-type: none"> 1. Opacity or visible emissions observations required by Subpart ZZZZZ at least 30 days before the scheduled observation per 63.6(h)(4) and(5) and 63.8(f); 2. Performance testing, including quality assurance program, at least 60 days prior to scheduled testing per 63.7(b) and (c) and 63.9(e); 3. Notification of compliance status, including the statements required by Table 4 of Subpart ZZZZZ, 30 days after an initial compliance demonstration that does not involve testing or 60 days after initial performance testing per 63.9(h) and 63.10898; 4. Written notification of the initial classification of your existing affected source as a large iron and steel facility as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d) or (e), as applicable; and 	18.4.9 18.5.3(c) 18.7.1 18.7.5 18.11.2(b)(4) 18.7.6 63.10890(f) 63.10899(d) 63.10900(b) 63.10(d)

No.	Federally Enforceable General Permit Conditions	Regulations
	<p>4. If there are no deviations from any permit condition, a statement that there were no deviations during the reporting period;</p> <p>5. Any and all instances of deviation from any permit condition during the reporting period must be clearly identified. For sources covered under 40 CFR 63, Subpart ZZZZZ, the following specific reporting shall be included:</p> <ul style="list-style-type: none"> a. Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective action taken; b. Summary information clearly identifying any deviation from the pollution prevention management practices in §§63.10885 and 63.10886 and the corrective action taken; c. Summary information on any deviation from the operation and maintenance requirements §63.10896 and the corrective action taken; and d. If the permittee utilizes a site specific plan for removal of mercury switches consistent with 63.10885(b)(1), the permittee shall submit semiannual progress reports per 63.10885(b)(1)(v) and 63.10890(e)(3)(ii) or 63.10899(b)(2)(ii) as applicable. <p>C. Prompt Reporting of Malfunctions, Deviations, Emergencies and Violations: Malfunctions, deviations, violations of permit requirements and exceedances of emission limits during an emergency shall be reported within 2 working days, including the probable cause of said malfunctions, emergency, deviations or violations and any corrective actions or preventive measures that were taken. In the event of an emergency, written documentation demonstrating that the event falls under the Department's emergency provision (General Condition 35) must be submitted within 5 days of the event. This episodic reporting requirement is in addition to and does not replace periodic reporting requirements.</p>	
48.	<p><u>Compliance Schedule Progress Reports</u> If any air pollution source owned or operated by the permittee is not in compliance with the emissions limitations, standards and work practices listed or referenced within this permit, the permittee shall submit progress reports including a statement of truth, accuracy and completeness of these reports shall be certified by a responsible official for that air pollution source. The first progress report shall be submitted within 3 months after the Operating Permit issuance date or within 3 months of the permittee or Department determining that the air pollution source is not in compliance. Subsequent reports shall be submitted every 6 months following the initial report. The progress reports shall contain the following:</p> <ul style="list-style-type: none"> A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and/or dates when such activities, milestones or compliance were achieved; and B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted. 	18.4.8(h) 18.7.3 18.7.4
49.	<p><u>Mandatory Greenhouse Gas Reporting (for informational purposes only):</u> The permittee shall be aware that the facility may be required to report emissions of greenhouse gases directly to EPA under the Mandatory Greenhouse Gas Reporting rules. The reporting threshold is annual greenhouse gas emissions equal to 25,000 metric tons CO₂e, calculated using the methods presented in 40 CFR 98. Mandatory greenhouse gas reporting is made directly to EPA and is not an enforceable requirement of this Title V Major Source Operating Permit. It is the permittee's responsibility to determine whether reporting is required each calendar year.</p>	40 CFR 98

Summary of Requirements for Metal Melting Operations

Description: 2 Electric Arc Furnaces (EAF) connected to a 140,000 SCFM Baghouse

Permitted Operating Schedule: 24 hours/day, 7 days/week, and 52 weeks/year

Type of Fuel Used:

Primary: None
 Secondary: None

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable Regulations
Fugitive Emissions from Foundry Operations	20% opacity as a 6-minute average, except as allowed by 63.10895(e)	63.10895(e)
Visible Emissions from Control Device(s)	20% opacity as a 6-minute average, except as allowed by 6.1.1	6.1.1
Particulate Matter or Metal HAP from Baghouse	0.8 lb PM/ton metal charged or 0.6 lb metal HAP/ton charged.	63.10895(c)(1)
Particulate Matter	$E = 3.59 p^{0.62}$ where E = Emissions in lb/hr and p = process weight rate in tons/hr ($p < 30$ tons/hr)	6.4.1

Pollution Control Devices: 140,000 SCFM Baghouse

Reference Test Methods: For Visible Emissions:
 EPA Method 9 of 40 CFR 60, Appendix A
 For PM:
 EPA Method 5 of 40 CFR 60, Appendix A

Continuous Monitoring System: Not Required

Monitoring Requirements: Conditions 5, 10 & 11

Recordkeeping Requirements: Condition 15

Testing Requirements: Conditions 13 & 14, General Condition 41

Reporting Requirements: General Conditions 45 through 48

Applicable Regulations: Chapters 6 & 18; 40 CFR 63, Subparts A & ZZZZZ

Emissions Unit No.	Emissions Unit Description
001	2 Electric Arc Furnaces (EAF) connected to a 140,000 SCFM Baghouse

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR METAL MELTING OPERATIONS SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations
1.	<p>Applicability The foundry operations subject to the requirements below shall include all portions of the facility involved in melting scrap, ingot, and/or other forms of iron and/or steel and all portions of the facility involved in pouring the resulting molten metal into molds to produce final or near-final shape products for introduction into commerce.</p> <p>A. Part 6.1 of the Rules and Regulations regulating visible particulate emissions; B. Part 6.4 of the Rules and Regulations regulating particulate matter emissions, and C. 40 CFR 63, Subpart ZZZZZ, "NESHAP: Iron and Steel Foundries Area Sources" and 40 CFR 63, Subpart A, "General Provisions" as provided in Table 3 of Subpart ZZZZZ.</p> <p>At the time this permit will be issued, the facility is classified as an existing large foundry. The facility may be reclassified as a small foundry if the annual metal melt production falls below 20,000 tons per year for a minimum of 3 consecutive years consistent with the requirements of 40 CFR 63.10881(d)(2). The permittee must continue to comply with all permit provisions until the notification of reclassification has been submitted to the Department and a written determination has been made that certain provisions which apply only to large foundries are no longer applicable to the facility.</p>	<p>6.1 18.3.1 18.1.1(q) 63.10880(b)(1) 63.10881(d) 18.2.4</p>
2.	<p>Production Restriction The amount of metal melted by the electric arc furnaces permitted herein shall not exceed 162,000 tons per year as a 12-month rolling total. Compliance shall be demonstrated by keeping records of the monthly metal melt and calculating the 12-month rolling total.</p>	18.2.4
3.	<p>Fugitive Emissions from Foundry Operations The permittee shall not discharge any emissions to the atmosphere from any building or structure housing foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent opacity. Continuous compliance with this requirement shall be demonstrated by maintaining the opacity of any fugitive emissions below this limit. The permittee is also subject to and shall comply with Section 6.1.1 of the Rules and Regulations, which is less stringent than the NESHAP emission limit.</p>	<p>63.10895(e) 6.1.1</p>
4.	<p>Visible Emissions from Control Device(s) The permittee shall not discharge into the atmosphere from any source of emission, particulate of an opacity greater than 20 percent (6-minute average), except as otherwise provided in Paragraphs 6.1.1(b) through 6.1.1(e).</p>	6.1.1
5.	<p>Daily Baghouse Observation The permittee shall observe the baghouse stack at least once a day when the sources permitted herein are operating. The observer shall record the time and date of the observation. If visible emissions are observed, the permittee shall take immediate corrective actions to eliminate the problem causing the visible emissions. If the visible emissions persist for more than 24 hours, the permittee shall conduct Method 9 visible emissions observations using a certified EPA Method 9 visible emissions reader. The permittee shall shut down the sources and repair the baghouse if the opacity exceeds 20%.</p>	18.2.4
6.	<p>Scrap Management Practices</p> <p>A. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate at all times in compliance with a written metallic scrap management program consistent with 63.10885(a); and</p> <p>B. To minimize mercury in scrap, the permittee shall prepare a site specific plan for removal of mercury switches consistent with 63.10885(b)(1), develop a plan to purchase scrap from providers who participate in an EPA-approved program for removal of mercury switches consistent with 63.10885(b)(2), comply with the certification options of 63.10885(b)(3) for specialty metal scrap that is not expected to contain mercury switches, and/or 63.10885(b)(4) for scrap that does not contain motor vehicle scrap.</p>	<p>63.10885 63.10895(a)</p>

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR METAL MELTING OPERATIONS SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations
7.	<p><u>Capture and Collection System</u> The permittee shall operate a capture and collection system for each metal melting furnace. Each capture and collection system must meet accepted engineering standards, such as those published by the American Conference of Governmental Industrial Hygienists.</p>	63.10895(b)
8.	<p><u>Particulate Matter Emissions Limit</u> The permittee shall not discharge to the atmosphere emissions from any metal melting furnace or group of all metal melting furnaces that exceeds 0.8 lb PM/ton metal charged or 0.6 lb metal HAP/ton charged. The permittee is also subject to and shall comply with Section 6.4.1 of the Rules and Regulations, which is less stringent than the NESHAP emissions limit.</p>	63.10895(c)(1) 6.4.1
9.	<p><u>Written Operation and Maintenance Plan</u> The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the EAF baghouse consistent with the requirements of 63.10896(a) and/or 63.10896(b). A copy of the current plan must be maintained on-site and available for inspection on request. The plan shall include provisions for compliance 63.6(e)(3) with regard to periods of startup, shutdown and malfunction.</p>	63.10896 Subpart ZZZZZ, Table 3
10.	<p><u>Baghouse Monitoring</u> The permittee shall perform periodic inspections according to the requirements in 63.10897(a)(1) and record the results of each initial and periodic inspection and any maintenance action in the logbook required in 63.10899(b)(13). The minimum inspection requirements include: A. Monthly visual inspections of the system ductwork for leaks; and B. Inspections of the interior of the baghouse for structural integrity and to determine the condition of the fabric filter every 6 months. As an alternative to the baghouse inspection requirements, the permittee may install, operate and maintain a baghouse leak detection system according to the requirements of 63.10897(d).</p>	63.10897(a) 63.10897(d)
11.	<p><u>Capture System Monitoring</u> The permittee shall make monthly inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). Any defect or deficiency in the capture system shall be repaired as soon as practicable, but no later than 90 days. Record the date and results of each inspection and the date of repair of any defect or deficiency.</p>	63.10897(e)
12.	<p><u>General Compliance Requirements</u> In the event of an exceedance of an established emissions limitation (including an operating limit), the permittee shall restore operation of the emissions source (including the control device and associated capture system) to its normal or usual manner or 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 exceedance. The permittee shall record the date and time correction action was initiated, the correction action taken, and the date corrective action was completed.</p>	63.10897(g) 63.6(c)
13.	<p><u>Performance Test Requirements</u> The permittee shall conduct performance tests to demonstrate compliance with the applicable PM or total metal HAP emissions limits no less frequently than every 5 years and each time the permittee elects to change an operating limit or make a process change likely to increase HAP emissions. Performance testing shall be conducted according to the requirements in 63.7(e)(1), Table 1 of Subpart ZZZZZ, and 63.10898(d) through 63.10898(g). In the performance test report, the permittee must certify that the capture system operated normally during the performance test.</p>	63.10898(b) 63.10898(c) 63.10898(j)
14.	<p><u>Foundry Visible Emissions Testing</u> The permittee shall conduct visible emissions tests to demonstrate compliance with the opacity limit from any building or structure housing foundry operations no less frequently</p>	63.10898(h) 63.10898(i)

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR METAL MELTING OPERATIONS SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations
	than every 6 months and each time the permittee elects to make a process change likely to increase fugitive emissions. Visible emissions testing for fugitive emissions shall be conducted according to the requirements in 63.6(h)(5) and Table I of Subpart ZZZZ using an observer who is certified according to EPA Method 9 (40 CFR 60, Appendix A).	
15.	<p>Recordkeeping The permittee shall maintain the following records for this emission unit:</p> <p>A. Keep the following records for each EAF:</p> <ol style="list-style-type: none"> 1. Hours of operation; 2. Tons of metal and other additives charged; and 3. Tons of molten metal tapped. <p>B. As required by §63.10(b)(1), maintain files of all information (including all reports and notifications, including supporting information) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Electronic records are acceptable.</p> <p>C. Maintain records of startups, shutdowns, malfunctions, required measurements and required maintenance according to the requirements of 63.10(b)(2).</p> <p>D. Keep records of written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable. Keep records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.</p> <p>E. Maintain records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, and an estimate of the percent of mercury switches recovered to demonstrate compliance with a site-specific plan for mercury under §63.10885(b)(1).</p> <p>F. Maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program to demonstrate compliance with approved mercury programs under §63.10885(b)(2). If the scrap provider is a broker, maintain records identifying each of the broker's scrap suppliers and documenting the scrap supplier's participation in an approved mercury switch removal program.</p> <p>G. Keep records of monthly metal melt production for each calendar year.</p> <p>H. Keep a copy of the operation and maintenance plan as required by §63.10896(a) and records that demonstrate compliance with plan requirements.</p> <p>I. If a bag leak detection system is used, keep records according to 63.10899(b)(9).</p> <p>J. Keep records of capture system inspections and repairs as required by §63.10897(e).</p> <p>K. Keep records of corrective action(s) for exceedances and excursions as required by §63.10897(g).</p> <p>L. Record the results of each inspection and maintenance required by §63.10897(a) for PM control devices in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the Administrator upon request. You must keep records of the date and time of each recorded action for a fabric filter, the results of each inspection, and the results of any maintenance performed on the bag filters.</p>	<p>1.9.1 18.5.3</p> <p>63.10899(a) 63.10(b)</p> <p>63.10(b)</p> <p>63.10899(b)</p>

Summary of Requirements for Metal Finishing

Description: Metal Finishing Operations

Permitted Operating Schedule: 24 hours/day, 7 days/week, and 52 weeks/year

Type of Fuel Used:
 Primary: Propane
 Secondary: Natural Gas

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable Regulations
Fugitive Emissions from Foundry Operations	20% opacity as a 6-minute average, except as allowed by 63.10895(e)	63.10895(e)
Visible Emissions from Control Device(s)	20% opacity as a 6-minute average, except as allowed by 6.1.1	6.1.1
Particulate Matter from Process Industries	$E = 3.59 p^{0.62}$ where E = Emissions in lb/hr and p = process weight rate in tons/hr ($p < 30$ tons/hr)	6.4.1
Particulate Matter from Fuel Burning Equipment	$E = 1.38H^{-0.44}$ where $E \leq 0.5$ lb PM / MMBtu and H = Heat Input (MMBtu/hr)	6.3
Sulfur Dioxide from Fuel Combustion	1.8 lb / MMBtu	7.1.1

Pollution Control Devices: Fabric Filters

Reference Test Methods:
 For Visible Emissions:
 EPA Method 9 of 40 CFR 60, Appendix A
 For PM:
 EPA Method 5 of 40 CFR 60, Appendix A
 For Sulfur Dioxide:
 EPA Method 6 of 40 CFR 60, Appendix A

Continuous Monitoring System: Not applicable

Monitoring Requirements: Pressure Differential Measuring Devices and Routine Inspections

Recordkeeping Requirements: Condition 5

Testing Requirements: General Condition 41

Reporting Requirements: General Conditions 45 through 48

Applicable Regulations: Chapters 6, 7 & 18; 40 CFR 63, Subparts A & ZZZZZ

Emissions Unit No.	Emissions Unit Description
002	3 Hot Wheel Grinders & 4 Hub Cutters (Propane) Sharing a 40,000 SCFM Baghouse
004	Apex Grinder, Wheel Cleaner (Shot Blaster), and Peener with a 12,000 SCFM Baghouse
013	Ovens and Furnaces Combusting Natural Gas

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR METAL FINISHING OPERATIONS SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations												
1.	<p>Visible Emissions from Foundry Operations The permittee shall not discharge any emissions to the atmosphere from any building or structure housing foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent opacity. Continuous compliance with this requirement shall be demonstrated by maintaining the opacity of any fugitive emissions below this limit. The permittee is also subject to and shall comply with Section 6.1.1 of the Rules and Regulations, which is less stringent than the NESHAP emission limit.</p>	63.10895(e) 6.1.1												
2.	<p>Visible Emissions from Control Device(s) The permittee shall not discharge into the atmosphere from any source of emission, particulate of an opacity greater than 20 percent (6-minute average), except as otherwise provided in Paragraphs 6.1.1(b) through 6.1.1(e).</p>	6.1.1												
3.	<p>Fuel Combustion Restriction The permittee shall combust only propane and/or natural gas in stationary fuel-combusting equipment. This condition will assure compliance with the applicable particulate matter and sulfur dioxide emissions limits from Parts 6.3 and 7.1 of the Rules and Regulations.</p>	6.3 7.1.1												
4.	<p>Control of Particulate Matter Emissions The permittee shall operate and maintain the equipment listed below at all times during the operation of the respective particulate matter emissions source each device is intended to control in accordance with the manufacturer's specifications and instructions so as to minimize the emissions of air contaminants:</p> <table border="1"> <thead> <tr> <th>Emission Unit No.</th> <th>Air Flow</th> <th>Grain Loading</th> <th>Potential Emission Rate</th> </tr> </thead> <tbody> <tr> <td>002</td> <td>40,000 SCFM</td> <td>0.0085 gr/DSCF</td> <td>2.91 lb/hr</td> </tr> <tr> <td>004</td> <td>12,000 SCFM</td> <td>0.0055 gr/DSCF</td> <td>0.57 lb/hr</td> </tr> </tbody> </table> <p>The permittee shall equip each the filter device with a pressure differential measuring device to measure pressure drop across the filter media in the control device. The permittee shall conduct routine inspections and shall make records of inspections and repairs performed. The permittee shall replace filters when needed and document the date of installation and replacement model number and quantity for all filters. The performance specifications for replacement filters must equal or exceed those presented in the table above. The cause of any visible emissions during operation of the above control devices shall be identified and the need for corrective action assessed. The permittee shall attempt to repair all leaks and malfunctions as soon as possible. The permittee is also subject to and shall comply with Section 6.4.1 of the Rules and Regulations, which is less stringent than the potential emission rates stated above.</p>	Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate	002	40,000 SCFM	0.0085 gr/DSCF	2.91 lb/hr	004	12,000 SCFM	0.0055 gr/DSCF	0.57 lb/hr	18.2.4 6.4.1
Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate											
002	40,000 SCFM	0.0085 gr/DSCF	2.91 lb/hr											
004	12,000 SCFM	0.0055 gr/DSCF	0.57 lb/hr											
5.	<p>Recordkeeping The permittee shall maintain the following records for the emissions units listed above:</p> <ul style="list-style-type: none"> A. Hours of operation for each baghouse; B. Quantity of propane and/or natural gas combusted by the hub cutters; C. Quantity of natural gas combusted by the normalizing and tempering furnaces; D. Time, date and duration of malfunctions, including whether the equipment the control device is intended to control was operating and any corrective actions taken; E. Time, date, name of person performing each inspection; F. Time, date, name of observer for visible emissions observations; and G. Time, date and name of person(s) performing maintenance and repairs. 	1.9.1 18.5.3 63.10(b)(3)												

Summary of Requirements for Mold & Core Making

Description: Sand Mold & Core Making Operations

Permitted Operating Schedule: 24 hours/day, 7 days/week, and 52 weeks/year

Type of Fuel Used:
 Primary: Natural Gas
 Secondary: None

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable Regulations
Fugitive Emissions from Foundry Operations	20% opacity as a 6-minute average, except as allowed by 63.10895(e)	63.10895(e)
Visible Emissions from Control Device(s)	20% opacity as a 6-minute average, except as allowed by 6.1.1	6.1.1
Particulate Matter from Process Industries	$E = 3.59 p^{0.62}$ where E = Emissions in lb/hr and p = process weight rate in tons/hr ($p < 30$ tons/hr)	6.4.1
Particulate Matter from Fuel Burning Equipment	$E = 1.38H^{-0.44}$ where $E \leq 0.5$ lb PM / MMBtu and H = Heat Input (MMBtu/hr)	6.3
Sulfur Dioxide from Fuel Combustion	1.8 lb / MMBtu	7.1.1

Pollution Control Devices: Fabric Filters

Reference Test Methods:
 For PM:
 EPA Method 5 of 40 CFR 60, Appendix A
 For Visible Emissions:
 EPA Method 9 of 40 CFR 60, Appendix A
 For Phenol:
 EPA Method 320 of 40 CFR 63, Appendix A
 For Sulfur Dioxide:
 EPA Method 6 of 40 CFR 60, Appendix A

Continuous Monitoring System: Not applicable

Monitoring Requirements: Pressure Differential Measuring Devices and Routine Inspections

Recordkeeping Requirements: Condition 8

Testing Requirements: General Condition 41

Reporting Requirements: General Conditions 45 through 48

Applicable Regulations: Chapters 6, 7 & 18; 40 CFR 63, Subparts A & ZZZZZ

Emissions Unit No.	Emissions Unit Description
006	Core Baking Station (Electric)
007	Cope Cleaner (Sand Blast Cleaning) with an 8,000 SCFM Baghouse
008	Drag Cleaner (Sand Blast Cleaning) with a 6,000 SCFM Baghouse
009	Sand Silo, Sand Heater (Natural Gas), and Sand Coater (Mixer) with a Distribution Cyclone and a 6,000 SCFM Baghouse
010	Mold Machining & Repair with a 7,500 SCFM Baghouse
016	Cope Spray with Baffles on Spray Booth
017	Drag Spray with Baffles on Spray Booth

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR MOLD & CORE MAKING SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations																				
1.	<p>Phenol Emissions Limit The permittee shall not exceed the phenol emissions limits below on a 12-month rolling total basis:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Emission Unit No.</th> <th>Unit Description</th> <th>Emission Limit</th> </tr> </thead> <tbody> <tr> <td>006</td> <td>Core Baking Station</td> <td>1.68 tons/yr</td> </tr> <tr> <td>009</td> <td>Sand Coater</td> <td>7.73 tons/yr (1.76 lb/hr)</td> </tr> </tbody> </table> <p>This restriction is intended to prevent the facility from being a major source of phenol emissions and to prevent the facility from being subject to 40 CFR 63, Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries."</p>	Emission Unit No.	Unit Description	Emission Limit	006	Core Baking Station	1.68 tons/yr	009	Sand Coater	7.73 tons/yr (1.76 lb/hr)	63.7681 18.2.4 18.1.1(q)											
Emission Unit No.	Unit Description	Emission Limit																				
006	Core Baking Station	1.68 tons/yr																				
009	Sand Coater	7.73 tons/yr (1.76 lb/hr)																				
2.	<p>Binder Formulation Restriction For any furfuryl alcohol warm box mold or core making line, the permittee shall use a binder chemical formulation that does not use methanol as a specific ingredient of the catalyst formulation. This requirement does not apply to the resin portion of the binder system.</p>	63.10886																				
3.	<p>Fuel Combustion Restriction The permittee shall combust only propane and/or natural gas in stationary fuel-combusting equipment. This condition will assure compliance with the applicable particulate matter and sulfur dioxide emissions limits from Parts 6.3 and 7.1 of the Rules and Regulations.</p>	6.3 7.1.1																				
4.	<p>Visible Emissions from Foundry Operations The permittee shall not discharge any emissions to the atmosphere from any building or structure housing foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent opacity. Continuous compliance with this requirement shall be demonstrated by maintaining the opacity of any fugitive emissions below this limit. The permittee is also subject to and shall comply with Section 6.1.1 of the Rules and Regulations, which is less stringent than the NESHAP emission limit.</p>	63.10895(e) 6.1.1																				
5.	<p>Visible Emissions from Control Device(s) The permittee shall not discharge into the atmosphere from any source of emission, particulate of an opacity greater than 20 percent (6-minute average), except as otherwise provided in Paragraphs 6.1.1(b) through 6.1.1(c).</p>	6.1.1																				
6.	<p>Baghouses and Bin Vents The permittee shall operate and maintain the equipment listed below at all times during the operation of the respective particulate matter emissions source each device is intended to control in accordance with the manufacturer's specifications and instructions so as to minimize the emissions of air contaminants:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Emission Unit No.</th> <th>Air Flow</th> <th>Grain Loading</th> <th>Potential Emission Rate</th> </tr> </thead> <tbody> <tr> <td>007</td> <td>8,000 SCFM</td> <td>0.01 gr/DSCF</td> <td>0.69 lb/hr</td> </tr> <tr> <td>008</td> <td>6,000 SCFM</td> <td>0.01 gr/DSCF</td> <td>0.51 lb/hr</td> </tr> <tr> <td>009</td> <td>6,000 SCFM</td> <td>0.01 gr/DSCF</td> <td>0.51 lb/hr</td> </tr> <tr> <td>010</td> <td>7,500 SCFM</td> <td>0.005 gr/DSCF</td> <td>0.32 lb/hr</td> </tr> </tbody> </table>	Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate	007	8,000 SCFM	0.01 gr/DSCF	0.69 lb/hr	008	6,000 SCFM	0.01 gr/DSCF	0.51 lb/hr	009	6,000 SCFM	0.01 gr/DSCF	0.51 lb/hr	010	7,500 SCFM	0.005 gr/DSCF	0.32 lb/hr	18.2.4 6.4.1
Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate																			
007	8,000 SCFM	0.01 gr/DSCF	0.69 lb/hr																			
008	6,000 SCFM	0.01 gr/DSCF	0.51 lb/hr																			
009	6,000 SCFM	0.01 gr/DSCF	0.51 lb/hr																			
010	7,500 SCFM	0.005 gr/DSCF	0.32 lb/hr																			

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR MOLD & CORE MAKING SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations															
	<p>The permittee shall equip each the filter device with a pressure differential measuring device to measure pressure drop across the filter media in the control device. The permittee shall conduct routine inspections and shall make records of inspections and repairs performed. The permittee shall replace filters when needed and document the date of installation and replacement model number and quantity for all filters. The performance specifications for replacement filters must equal or exceed those presented in the table above. The cause of any visible emissions during operation of the above control devices shall be identified and the need for corrective action assessed. The permittee shall attempt to repair all leaks and malfunctions as soon as possible. The permittee is also subject to and shall comply with Section 6.4.1 of the Rules and Regulations, which is less stringent than the potential emission rates stated above.</p>																
7.	<p>Other Particulate Matter Emissions Sources The permittee shall comply with the following PM emission rates for other emission sources not controlled by baghouses or bin vents:</p> <table border="1"> <thead> <tr> <th>Emission Unit No.</th> <th>Equipment Description</th> <th>Potential Emission Rate</th> </tr> </thead> <tbody> <tr> <td>009</td> <td>Sand Silo</td> <td>0.27 lb/ton sand</td> </tr> <tr> <td>009</td> <td>Sand Heater</td> <td>0.10 lb/hr</td> </tr> <tr> <td>016</td> <td>Cope Spray Booth</td> <td>1.50 lb/hr</td> </tr> <tr> <td>017</td> <td>Drag Spray Booth</td> <td>1.50 lb/hr</td> </tr> </tbody> </table> <p>The permittee is also subject to and shall comply with Section 6.4.1 of the Rules and Regulations, which is less stringent than the potential emission rates stated above.</p>	Emission Unit No.	Equipment Description	Potential Emission Rate	009	Sand Silo	0.27 lb/ton sand	009	Sand Heater	0.10 lb/hr	016	Cope Spray Booth	1.50 lb/hr	017	Drag Spray Booth	1.50 lb/hr	18.2.4 6.4.1
Emission Unit No.	Equipment Description	Potential Emission Rate															
009	Sand Silo	0.27 lb/ton sand															
009	Sand Heater	0.10 lb/hr															
016	Cope Spray Booth	1.50 lb/hr															
017	Drag Spray Booth	1.50 lb/hr															
8.	<p>Recordkeeping The permittee shall maintain the following records for the emission units listed above :</p> <ul style="list-style-type: none"> A. Keep records to document use of any binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation for each furfuryl alcohol warm box mold or core making line as required by §63.10886. These records must be the Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet. B. Keep records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records must be copies of purchasing records, Safety Data Sheets, or other documentation that provide information on the binder or coating materials used. C. During the first 2 weeks of each month, the permittee shall calculate the 12-month rolling total of phenol emissions from the core baking station and the sand coater to demonstrate compliance with the permitted limits; D. The quantity of cores baked at EU 006; E. The percent phenol in coated sand used to make cores at EU 006; F. The quantity of sand through sand blast cleaning units EUs 007 and 008; G. The hours of operation of sand blast cleaning units EUs 007 and 008; H. The quantity of heated sand at EU 009; I. The quantity of phenolic resin used at EU 009 J. The percent phenol in phenolic resin at EU 009; K. The hours of operation for spray booths EU 016 and 017; and L. For each particulate matter control device: <ul style="list-style-type: none"> 1. The hours of operation of each baghouse and bin vent; 2. Time, date and duration of malfunctions, including whether the equipment the control device is intended to control was operating and any corrective actions taken; 3. Time, date, name of person performing each inspection; 4. Time, date, name of observer for visible emissions observations; and 5. Time, date and name of person(s) performing maintenance and repairs. 	1.9.1 18.5.3 63.10899(b)(4) 63.10899(b)(5) 63.10(b)(3)															

Summary of Requirements for Material Storage Silos

Description: Material Storage Silos

Permitted Operating Schedule: 24 hours/day, 7 days/week, and 52 weeks/year

Type of Fuel Used:
 Primary: None
 Secondary: None

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable Regulations
Fugitive Emissions from Foundry Operations	20% opacity as a 6-minute average, except as allowed by 63.10895(e)	63.10895(e)
Visible Emissions from Control Device(s)	20% opacity as a 6-minute average, except as allowed by 6.1.1	6.1.1
Particulate Matter from Process Industries	$E = 3.59 p^{0.62}$ where E = Emissions in lb/hr and p = process weight rate in tons/hr ($p < 30$ tons/hr)	6.4.1

Pollution Control Devices: Fabric Filters

Reference Test Methods: For PM:
 EPA Method 5 of 40 CFR 60, Appendix A
 For Visible Emissions:
 EPA Method 9 of 40 CFR 60, Appendix A

Continuous Monitoring System: Not applicable

Monitoring Requirements: Pressure Differential Measuring Devices and Routine Inspections

Recordkeeping Requirements: Condition 4

Testing Requirements: General Condition 4I

Reporting Requirements: General Conditions 45 through 48

Applicable Regulations: Chapters 6 & 18; 40 CFR 63, Subparts A & ZZZZZ

Emissions Unit No.	Emissions Unit Description
014	Lime Storage Silo with a 1,500 SCFM Bin Vent Filter
018	Fuchsite Storage Silo

No.	FEDERALLY ENFORCEABLE CONDITIONS FOR MATERIAL STORAGE SILOS SUBJECT TO 40 CFR 63, SUBPART ZZZZZ	Regulations												
1.	<p>Visible Emissions The permittee shall not discharge any emissions to the atmosphere from any building or structure housing foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent opacity. Continuous compliance with this requirement shall be demonstrated by maintaining the opacity of any fugitive emissions below this limit. The permittee is also subject to and shall comply with Section 6.1.1 of the Rules and Regulations, which is less stringent than the NESHAP emission limit.</p>	63.10895(e) 6.1.1												
2.	<p>Visible Emissions from Control Device(s) The permittee shall not discharge into the atmosphere from any source of emission, particulate of an opacity greater than 20 percent (6-minute average), except as otherwise provided in Paragraphs 6.1.1(b) through 6.1.1(e).</p>	6.1.1												
3.	<p>Control of Particulate Matter Emissions The permittee shall operate and maintain the equipment listed below at all times during the operation of the respective particulate matter emissions source each device is intended to control in accordance with the manufacturer's specifications and instructions so as to minimize the emissions of air contaminants:</p> <table border="1"> <thead> <tr> <th>Emission Unit No.</th> <th>Air Flow</th> <th>Grain Loading</th> <th>Potential Emission Rate</th> </tr> </thead> <tbody> <tr> <td>014</td> <td>1,500 SCFM</td> <td>0.01 gr/DSCF</td> <td>0.13 lb/hr</td> </tr> <tr> <td>018</td> <td>700 SCFM</td> <td>0.01 gr/DSCF</td> <td>0.06 lb/hr</td> </tr> </tbody> </table> <p>The permittee shall equip each the filter device with a pressure differential measuring device to measure pressure drop across the filter media in the control device. The permittee shall conduct routine inspections and shall make records of inspections and repairs performed. The permittee shall replace filters when needed and document the date of installation and replacement model number and quantity for all filters. The performance specifications for replacement filters must equal or exceed those presented in the table above. The cause of any visible emissions during operation of the above control devices shall be identified and the need for corrective action assessed. The permittee shall attempt to repair all leaks and malfunctions as soon as possible. The permittee is also subject to and shall comply with Section 6.4.1 of the Rules and Regulations, which is less stringent than the potential emission rates stated above.</p>	Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate	014	1,500 SCFM	0.01 gr/DSCF	0.13 lb/hr	018	700 SCFM	0.01 gr/DSCF	0.06 lb/hr	18.2.4 6.4.1
Emission Unit No.	Air Flow	Grain Loading	Potential Emission Rate											
014	1,500 SCFM	0.01 gr/DSCF	0.13 lb/hr											
018	700 SCFM	0.01 gr/DSCF	0.06 lb/hr											
4.	<p>Recordkeeping The permittee shall maintain the following records for the storage silos:</p> <ul style="list-style-type: none"> A. Quantity of lime stored; B. Quantity of fuchsite stored; C. Hours of operation; D. Time, date and duration of malfunctions, including whether the equipment the control device is intended to control was operating and any corrective actions taken; E. Time, date, name of person performing each inspection; F. Time, date, name of observer for visible emissions observations; and G. Time, date and name of person(s) performing maintenance and repairs. 	1.9.1 18.5.3												

**APPENDIX A: CROSS-REFERENCE TABLE: JCDH AIR POLLUTION CONTROL
RULES AND REGULATIONS TO STATE IMPLEMENTATION PLAN**

The citations to Alabama regulations provided below refer to the version of the regulation that has been approved by the U.S. EPA as part of Alabama's Clean Air Act state implementation plan (SIP), as identified in 40 CFR 52, Subpart B. In the event that there is a discrepancy between the information provided in the table below and the federal regulatory table identifying the Alabama SIP at 40 CFR 52, Subpart B, the federal regulatory table governs.

JCDH Citation	State Citation	Title/Subject
Chapter 1	Chapter No. 335-3-1	General Provisions
Part 1.1	Section 335-3-1-.01	Purpose
Part 1.3	Section 335-3-1-.02 ¹	Definitions
Part 1.7	Section 335-3-1-.03	Ambient Air Quality Standards
Part 1.9	Section 335-3-1-.04	Monitoring, Records, and Reporting
Part 1.10	Section 335-3-1-.05	Sampling and Test Methods
Part 1.11	Section 335-3-1-.06	Compliance Schedule
Part 1.12	Section 335-3-1-.07	Maintenance and Malfunctioning of Equipment; Reporting
Part 1.13	Section 335-3-1-.08	Prohibition of Air Pollution
Sections 3.2.1 – 3.2.4 & Part 3.4	Section 335-3-1-.09	Variances
Part 1.15	Section 335-3-1-.10	Circumvention
Part 1.16	Section 335-3-1-.11	Severability
Part 1.17	Section 335-3-1-.12	Bubble Provision
Part 1.18	Section 335-3-1-.13	Credible Evidence
Part 1.20	Section 335-3-1-.15	Emissions Inventory Reporting Requirements
Chapter 2	Chapter No. 335-3-14	Air Permits
Part 2.1	Section 335-3-14-.01	General Provisions
Part 2.2, except 2.2.4(h)	Section 335-3-14-.02	Permit Procedures
Part 2.3	Section 335-3-14-.03	Standards for Granting Permits
Part 2.4	Section 335-3-14-.04 ^{2,3}	Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration (PSD)]
Part 2.5	Section 335-3-14-.05 ⁴	Air Permits Authorizing Construction in or Near Nonattainment Areas
Chapter 4	Chapter No. 335-3-2	Air Pollution Emergency
Part 4.1	Section 335-3-2-.01	Air Pollution Emergency
Part 4.3	Section 335-3-2-.02	Episode Criteria
Part 4.4	Section 335-3-2-.03	Special Episode Criteria
Part 4.5	Section 335-3-2-.04	Emission Reduction Plans
Part 4.6	Section 335-3-2-.05	Two Contaminant Episode
Part 4.7	Section 335-3-2-.06	General Episodes
Part 4.8	Section 335-3-2-.07	Local Episodes
Part 4.9	Section 335-3-2-.08	Other Sources
Section 4.2.3	Section 335-3-2-.09	Other Authority Not Affected
Chapter 5	Chapter No. 335-3-3	Control of Open Burning and Incineration
Sections 5.1.1 – 5.1.5 ⁵	Section 335-3-3-.01	Open Burning
Part 5.2	Section 335-3-3-.02	Incinerators
Part 5.3 ⁶ , except 5.3.4	Section 335-3-3-.03	Incineration of Wood, Peanut, and Cotton Ginning Waste

¹ Revisions of the definition of VOC to exclude *trans* 1-chloro-3,3,3-trifluoroprop-1-ene (Solstice™ 1233zs(E)), 2,3,3,3-tetrafluoropropene, and 2-amino-2-methyl-1-propanol (AMP) have not been approved into the SIP.

² Revisions to the following provisions have not been approved as SIP changes by EPA: the permitting applicability statement for greenhouse gases at ADEM 335-3-14-.04(1)(k) (JCDH 2.4.1(k)) and the definition of replacement unit at ADEM 335-3-14-.04(2)(bbb) (JCDH 2.4.2(bbb)).

³ As of Sept. 26, 2012 Section 335-3-14-.04 does not include Alabama's revision to adopt the PM_{2.5} SILs threshold and provisions (as promulgated in the October 20, 2010 PM_{2.5} PSD Increment-SILs-SMC Rule at 40 CFR 1.166(k)(2) and the term "particulate matter emissions" (as promulgated in the May 16, 2008 NSR PM_{2.5} Rule (as 40 CFR 51.166(b)(49)(vi)).

⁴ The following provisions are not part of the EPA-approved SIP: the portion of 335-3-14-.05(1)(k) (JCDH 2.5.1(k)) stating "excluding ethanol production facilities that produce ethanol by natural fermentation"; 335-3-14-.05(2)(c)3. (JCDH 2.5.2(c)(3)) which addresses fugitive emission increases and decreases; 335-3-14-.05(1)(h) (JCDH 2.5.1(h)) stating the actual-to-potential test for projects that only involve existing emissions units; the last sentence at 335-3-14-.05(3)(g) (JCDH 2.5.3(g)), stating "interpollutant offsets shall be determined based on the following ratios"; and the NNSR interpollutant ratios at 335-3-14-.05(3)(g)1-.4. (JCDH 2.5.3(g)(1)-(4)).

⁵ See also Guidelines & Standard Operating Procedures for Issuance of Open Burning Authorizations at the end of Chapter 5. ADEM 335-3-.01(2)(h)(6) also prohibits open burning during declared air stagnation advisories and drought emergencies.

⁶ JCDH has no equivalent for ADEM 335-3-3-.03(5), which states "Each incinerator subject to this Rule shall be properly designed, equipped, and maintained for its maximum rated burning capacity and shall be equipped with an underfire forced air system, an over-fire air recirculation secondary

JCDH Citation	State Citation	Title/Subject
Chapter 6	Chapter No. 335-3-4	Control of Particulate Emissions
Sections 6.1.1 & 6.1.2	Section 335-3-4-.01 ⁷	Visible Emissions
Part 6.2	Section 335-3-4-.02 ⁸	Fugitive Dust and Fugitive Emissions
Part 6.3	Section 335-3-4-.03	Fuel Burning Equipment
Part 6.4	Section 335-3-4-.04	Process Industries—General
Part 6.5 ⁹	Section 335-3-4-.05	Small Foundry Cupola
Part 6.6 ¹⁰	Section 335-3-4-.06	Cotton Gins
Part 6.7	Section 335-3-4-.07	Kraft Pulp Mills
Part 6.8	Section 335-3-4-.08	Wood Waste Boilers
Part 6.9	Section 335-3-4-.09	Coke Ovens
Part 6.10	Section 335-3-4-.11	Cement Plants
Part 6.12	Section 335-3-4-.12	Xylene Oxidation Process
No equivalent provision	Section 335-3-4-.14	Grain Elevators
No equivalent provision	Section 335-3-4-.15	Secondary Lead Smelters
Chapter 7	Chapter No. 335-3-5	Control of Sulfur Compound Emissions
Part 7.1	Section 335-3-5-.01	Fuel Combustions
Part 7.2 is not equivalent	Section 335-3-5-.02	Sulfuric Acid Plants
No equivalent provision	Section 335-3-5-.03	Petroleum Production
No equivalent provision	Section 335-3-5-.04	Kraft Pulp Mills
No equivalent provision	Section 335-3-5-.05	Process Industries—General
Chapter 8	Chapter No. 335-3-6	Control of Volatile Organic Compound (VOC) Emissions
Part 8.1 ¹¹	Section 335-3-6-.24	Applicability
Part 8.2	Section 335-3-6-.25	VOC Water Separation
Part 8.3	Section 335-3-6-.26 ^{12, 13}	Loading and Storage of VOC
Part 8.4	Section 335-3-6-.27	Fixed-Roof Petroleum Liquid Storage Vessels
Part 8.5	Section 335-3-6-.28	Bulk Gasoline Plants
Part 8.6	Section 335-3-6-.29	Gasoline Terminals
Part 8.7, except 8.7.4(b) & 8.7.5(e)	Section 335-3-6-.30	Gasoline Dispensing Facilities Stage I
Part 8.11	Section 335-3-6-.32	Surface Coating
Part 8.12	Section 335-3-6-.33 ¹⁴	Solvent Metal Cleaning
Part 8.13	Section 335-3-6-.34	Cutback and Emulsified Asphalt
Part 8.15	Section 335-3-6-.36	Compliance Schedules
Part 8.16 ¹⁵	Section 335-3-6-.37	Test Methods and Procedures
Part 8.18	Section 335-3-6-.39	Manufacture of Synthesized Pharmaceutical Products
Part 8.20, except 8.20.8	Section 335-3-6-.41	Leaks from Gasoline Tank Trucks and Vapor Collection Systems
Part 8.22	Section 335-3-6-.43 ¹⁶	Graphic Arts
Part 8.23	Section 335-3-6-.44	Petroleum Liquid Storage in External Floating Roof Tanks
Part 8.24	Section 335-3-6-.45	Large Petroleum Dry Cleaners
Part 8.26	Section 335-3-6-.47	Leaks from Coke by-Product Recovery Plant Equipment
Part 8.27	Section 335-3-6-.48	Emissions from Coke by-Product Recovery Plant Coke

construction system, and variable control damper, all of which shall be electronically controlled to insure the optimum temperature range for the complete combustion of the amount and type of material waste being charged into the incinerator. Each such incinerator shall be equipped with a temperature recorder which shall be operated continuously with the incinerator, and the temperature records shall be made available for inspection at the request of the Director."

⁷ ADEM 335-3-4-.01(1) & (2) are included in the EPA-approved SIP, however, the remaining provisions are not SIP-approved.

⁸ ADEM 335-3-4-.02(4) was removed effective July 15, 1999, however, the provision is still included in the EPA-approved SIP.

⁹ All allowable emissions rates in Table 6-3 should be construed to have 2 significant figures, consistent with ADEM 335-3-4-.05, Table 4-3.

¹⁰ All allowable emissions rates in Table 6-4 should be construed to have 1 significant figure, consistent with ADEM 335-3-4-.06, Table 4-4.

¹¹ The definition at ADEM 335-3-6-.24(2)(d) is located at JCDH Part 1.3.

¹² The EPA-approved SIP excludes only 11 compounds from the definition of VOC at ADEM 335-3-6-.26(1) (JCDH 8.3.1). The SIP-approved exemptions are listed in ADEM 335-3-1-.02(1)(gggg)(JCDH Part 1.3) as numbered exemptions 1-10 and 20.

¹³ The EPA-approved SIP requires a disposal system in conjunction with equipment required by ADEM 335-3-6-.26(2)(c)1.(i) (JCDH 8.3.2(c)(1)(i)).

¹⁴ ADEM 335-3-6-.33(5)(n) (JCDH 8.12.5(n)) is not included in the approved SIP.

¹⁵ Federally enforceable testing provisions for perchloroethylene dry cleaning systems are located at ADEM 335-3-6-.37(5) and federally enforceable testing provisions for capture efficiency are located at ADEM 335-3-6-.37(13).

¹⁶ The following provisions are not included in the EPA-approved SIP: the last 4 sentences of ADEM 335-3-6-.43(1)(c) (JCDH 8.22.(c)), provision ADEM 335-3-6-.43(1)(f) (JCDH 8.22.1(f)) and all provisions of ADEM 335-3-6-.43(5) & (6) (JCDH 8.22.5 and 8.22.6).

JCDH Citation	State Citation	Title/Subject
		Oven Gas Bleeder
Part 8.28	Section 335-3-6-.49 ¹⁷	Manufacture of Laminated Countertops
Part 8.29	Section 335-3-6-.50	Paint Manufacture
Part 8.23 ¹⁸	Section 335-3-6-.53	List of EPA Approved and Equivalent Test Methods and Procedures for the Purpose of Determining VOC Emissions
Chapter 9	Chapter No. 335-3-7	Control of Carbon Monoxide Emissions
Part 9.1	Section 335-3-7-.01	Metals Productions
Part 9.2	Section 335-3-7-.02	Petroleum Processes
Chapter 10	Chapter No. 335-3-8	Control of Nitrogen Oxides Emissions
Part 10.1	Section 335-3-8-.01	Standards for Portland Cement Kilns
Part 10.2	Section 335-3-8-.02	Nitric Acid Manufacturing
Part 10.3	Section 335-3-8-.03	NO _x Emissions from Electric Utility Generating Units
Part 10.4	Section 335-3-8-.04	Standards for Stationary Reciprocating Internal Combustion Engines
Part 10.5	Section 335-3-8-.05 ¹⁹	New Combustion Sources
Chapter 11	Chapter No. 335-3-9	Control of Emissions from Motor Vehicles
Part 11.1	Section 335-3-9-.01	Visible Emission Restriction for Motor Vehicles
Part 11.2	Section 335-3-9-.02	Ignition System and Engine Speed
Part 11.3	Section 335-3-9-.03	Crankcase Ventilation Systems
Part 11.4	Section 335-3-9-.04	Exhaust Emission Control Systems
Part 11.5	Section 335-3-9-.05	Evaporative Loss Control Systems
Part 11.6	Section 335-3-9-.06	Other Prohibited Acts
Part 11.7	Section 335-3-9-.07	Effective Date
Chapter 17	Chapter No. 335-3-15	Synthetic Minor Operating Permits
Part 17.1	Section 335-3-15-.01 ²⁰	Definitions
Part 17.2, except 17.2.8(h)(7)	Section 335-3-15-.02 ²¹	General Provisions
Part 17.3	Section 335-3-15-.03	Applicability
Part 17.4 ²²	Section 335-3-15-.04	Synthetic Minor Operating Permit Requirements
Part 17.5, except 17.5.2	Section 335-3-15-.05	Public Participation
Chapter 19	Chapter No. 335-3-17	Conformity of Federal Actions to State Implementation Plans
Part 19.1	Section 335-3-17.01 ²³	Transportation Conformity
Part 19.2	Section 335-3-17-.02	General Conformity

¹⁷ Current ADEM 335-6-.49(4) & (5) (JCDH 8.28.4 and 8.28.5) are not included in the EPA-approved SIP. The SIP-approved version of ADEM 335-6-.49(4) (JCDH 8.28.4) is "Compliance with this Rule shall be demonstrated via certification by the adhesive manufacturer as to the composition of the adhesive, if supported by actual batch formulation records. Sufficient data to determine as-applied formulation is different from the as-purchased adhesive."

¹⁸ Test Methods 204, 204A-204F are not included in the APR-approved SIP.

¹⁹ ADEM 335-3-8-.05 was approved into the SIP as ADEM 335-3-8-.14 but was renumbered when CAIR provisions were removed.

²⁰ Only the first sentence of ADEM 335-3-15-.01(g) is approved into the SIP. JCDH does not include the unapproved language.

²¹ ADEM 335-3-15-.02(10) is not included in the EPA-approved SIP. JCDH does not include the unapproved provision.

²² JCDH Part 17.4 does not include the federally enforceable provisions of ADEM 335-3-15-.04(1)(g) and (3)(c).

²³ The reference to July 1, 2012 in ADEM 335-3-14-.01 and JCDH Part 19.1.1 has not been approved into the SIP.