



# Florida Department of Environmental Protection

Northeast District  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Noah Valenstein  
Secretary

## PERMITTEE

Maddox Foundry & Machine Works, LLC  
13370 SW 170<sup>th</sup> Street  
Archer, Florida 32618

Air Permit No. 0010007-010-AO  
Air Operation Permit

Authorized Representative:  
Chase Hope, Vice President/Chief Operating Officer

Maddox Foundry & Machine  
Works, LLC  
Alachua County, Florida

## PROJECT

This is the final air operation permit, which authorizes the operation of Maddox Foundry & Machine Works, LLC, which is a metal foundry (Standard Industrial Classification Nos. 3321 and 3325). This project renews the air operating permit for the facility. The facility is located in Alachua County at 13370 SW 170<sup>th</sup> Street in Archer, Florida. The UTM coordinates are Zone 17, 434.0 kilometers (km) East, and 3283.4 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

**Permitting Authority:** Applications for air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Northeast District. The Permitting Authority's physical address is: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Permitting Authority's mailing address is: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Permitting Authority's telephone number is 904/256-1700.

**Petitions.** A person whose substantial interests are affected by the proposed decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, MS #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, [Agency\\_Clerk@dep.state.fl.us](mailto:Agency_Clerk@dep.state.fl.us). Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this notice. Petitions filed by any other person must be filed within 14 days of receipt of this proposed action. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the

## FINAL AIR OPERATION PERMIT

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proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

**Effective Date:** This permitting decision is final and effective on the date filed with the clerk of the Permitting Authority unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Permitting Authority.

**Judicial Review:** Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

0010007-010-AO Effective Date: May 3, 2018  
Renewal Application Due Date: March 4, 2023  
Expiration Date: May 3, 2023

### **EXECUTION AND CLERKING:**

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



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Thomas G. Kallemeyn  
Permitting Program Administrator

**FINAL AIR OPERATION PERMIT**

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**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Chase Hope, Maddox Foundry & Machine Works, LLC, chaseh@maddoxfoundry.com  
Veronica Sgro, Koogler and Associates, vsgro@kooglerassociates.com

**FILING AND ACKNOWLEDGMENT**

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

 _____	May 3, 2018 _____
<b>Clerk</b>	<b>Date</b>

## SECTION 1. GENERAL INFORMATION

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### FACILITY DESCRIPTION

#### Existing Facility

Maddox Foundry & Machine Works, Inc. is a metal foundry that manufactures cast products such as hammers for hammermills, rock crushers, slurry pumps, ductile iron slurry pipe fittings, trommel screens, cast liners for rod or ball mills, and custom castings. The foundry manufactures two grades of steel, two grades of gray iron, two grades of ductile iron and high chrome iron castings. The foundry also manufactures aluminum and bronze castings.

Operations at this facility include melting scrap metal in an Electric Arc Furnace (EU 001), pouring the molten metal into molds, which are allowed to cool in the shape of the mold and then removed to ship or make a fabricated part or product.

Handcrafted wood or Styrofoam patterns are used to create a corresponding cavity in the casting material, i.e. form the molten metal into a given shape. Cores are shapes, which are made of sand, that are inserted into the mold to provide holes, voids, or tunnels in the finished casting.

A casting flask is a metal frame or a box without a bottom or lid. The flask is split into two halves the top, called a cope and the bottom, called a drag. Each half of the flask contains molding sand with either the top or the bottom half of the wood or Styrofoam pattern and the inserted cores. The two halves are stacked together thus forming the whole mold.

The molding sand, used in the casting flask, is made from a mixture of sand and a small amount of water-based, adhesive. The type of molding sand used, either green sand or acid sand, depends upon the desired casting product. Green sand, an aggregate of sand, bentonite clay, pulverized coal and water, is used for the larger castings. Acid sand, is a finer grit sand that is used for cosmetic castings. Acid sand is also used to make cores at this foundry.

The molding sand is pumped from a 40 Ton storage silo using air pressure into large, batch mixers where the adhesive is added, and then fed into slingers for distribution onto the patterns held within the casting flask. The PM emissions from the sand silo during loading and unloading are controlled by the same Griffin Environmental Co., Inc., M1-864 baghouse that is used to control the PM emissions from the finished casting grinding booths operation (EU 003).

Approximately 90% of the flange cores made at the foundry are oven cured in a small, electric, oven, which is maintained at 150 – 200 degrees Fahrenheit. The molds made at the foundry are cured in the open-air buildings.

The metal used in the electric arc furnace is all scrap metal. It consists of purchased material or metal produced by the fabrication shop. The purchased metal does not require any degreasing by the foundry. The fabrication shop metal is cleaned with a pressure washer in the facility's containment area if needed prior to being charged in the electric arc furnace.

The electric arc furnace is outfitted with three (3) carbon electrodes, which are raised or lowered through the furnace roof. The electrodes must be retracted in order for the furnace roof to be rotated aside to allow the charge of the scrap metal by an overhead crane. The roof is returned over the furnace and an electric current is generated between the electrodes. This current produces heat through the electrodes and scrap metal, which in turn melts the scrap metal. During steel heats, oxygen is injected directly into the melt through a half-inch pipe to remove excess carbon.

Once melted, the nonmetallic impurities in the molten metal form a residue known as slag. Slag weighs less than the molten iron so it floats on top, which allows it to be removed by a combination of tipping the furnace backwards and pouring the slag out through a slag door as well as dragging the slag off the top of the molten metal. This foundry uses carbon and alumina silicate to aid in slag formation.

## SECTION 1. GENERAL INFORMATION

During refining, alloy elements may be added to produce the desired metallurgy. This stage occurs in the final few minutes before the tap hole is opened and the molten metal is poured out of the furnace into the holding bucket and ladle.

From the ladle, the molten metal is poured into the mold and allowed to cool. Once cooled, the castings are manually shaken out of their molds to remove the loose sand from the casting followed by blasting with either steel shot or sand. The removed sand is recycled and reused as molding sand.

The particulate matter emissions generated from the sand blasting operation are not controlled. With the facility's self-imposed limitation on hours of operation, the potential particulate matter emissions from this operation are less than 5 tons per year. The particulate matter emissions generated from the steel shot blast machine are captured through a hood and routed to the Griffin Environmental Co., Inc., M1-864 baghouse.

The cooled casting is sent to the finishing process where it is cleaned with the pneumatic grinding equipment. The grinding area consists of 6 grinding booths. Each booth has a capture hood. Particulate matter emissions are captured through the hoods and routed to the Griffin Environmental Co., Inc., M1-864 baghouse.

At the back of the fabrication shop, cranes are used to paint the bottom side of an assembled "fabrication" (assembled castings) prior to delivery. A single employee using a single spray gun does this painting. The painting is done during the evening hours. Estimated potential VOC emissions from this activity are such that they are less than 5 tons per year. Estimated potential HAP emissions are less than 1,000 pounds per year for a single HAP and 2,500 pounds per year for total HAPs.

Emissions from the electric arc furnace are controlled using a fourth hole (direct shell) capture system followed by a Pangborn baghouse. Direct shell evacuation consists of ductwork attached to a separate or fourth hole in the furnace roof, which draws emissions via ductwork to the baghouse. This system works only when the furnace is up right with the roof in place. As such, fugitive emissions generated during the charging, alloying, slag removal, and tapping operations are not controlled by the system. These fugitive emissions are subject to the General Opacity Standard of State Rule 62-296.320, F.A.C.

Aluminum and bronze castings are produced from purchased ingots in a 0.82 MMBtu/hr, diesel-fired, reverberatory furnace. The quantity of fuel fired is dependent upon whether bronze or aluminum is being melted, but is estimated to be approximately 6 gallons per hour and 300 – 600 gallons per year. Aluminum batches are estimated at 100 – 300 pounds per batch, while bronze batches are estimated to be 200- 500 pounds per batch. The facility produces 500 pounds of aluminum castings per year and 6,000 – 10,000 pounds of bronze castings in a given year. Alloys or metals are not added to the molten metal in order to achieve the desired metallurgy. The estimated potential emissions are such that they are less than 5 tons per year for criteria pollutants, less than 1,000 pounds per year for any individual HAP, and less than 2,500 pounds per year for total HAPs.

The existing facility consists of the following emissions units (EU) and emission points (EP).

EU No.	EP ID No.	Emission Unit/Point Description
001	---	Whiting #6/MT Electric Arc Furnace controlled by a Pangborn 2-compartment Baghouse
---	01	Molding Sand Adhesives
003	---	Finished Casting Grinding Booths Operation controlled by a Griffin Environmental Co., Inc. 4-compartment Baghouse, Model M1-864. <i>This baghouse also controls emissions from Emission Points 01, and 03.</i>
	01	40 Ton storage Silo controlled by the Griffin Environmental Co., Inc. 4-compartment Baghouse, Model M1-864
	02	Sand Blasting Operation ( <i>uncontrolled</i> )

**SECTION 1. GENERAL INFORMATION**

	03	Steel Blast Machine controlled by the Griffin Environmental Co., Inc. 4-compartment Baghouse, Model M1-864
004	---	Brown/Boveri-ISNG 3.5 electric induction furnace <i>{Permitting Note: This emissions unit is for (2) additional electric induction furnaces. However, the Ajax Tocco Magnethermic and the Brown Boveri-ISNG 1.5 electric induction furnaces have not been constructed/installed as of the date of issuance of this operation permit. The construction/installation of these two furnaces are addressed in Construction Permit No. 0010007-006-AC}</i>

**APPLICABLE REGULATIONS**

A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU No(s).</b>
<i>Federal Rule Citations</i>	
40 CFR 63, Subpart A, NESHAP General Provisions	Facility Wide
40 CFR 63, Subpart National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources	Facility Wide
<i>State Rule Citations</i>	
Rule 62-210.200(PTE), F.A.C., Definitions	All
Rule 62-210.300, F.A.C., Permits Required	All
Rule 62-297.310, F.A.C., General Emissions Test Requirements	All
Rule 62-204.800(11), F.A.C., Federal Regulations Adopted by Reference	All

**FACILITY REGULATORY CLASSIFICATION**

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.
- The facility is a Synthetic Non-Title V source of air pollution.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The permitting authority for this project is the Northeast District. The Northeast District mailing address is 8800 Baymeadows Way West, Jacksonville, Florida 32256. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District at: 8800 Baymeadows Way West, Jacksonville, Florida 32256.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); Appendix D (Common Testing Requirements), Appendix E (NESHAP Subpart A, General Provisions), and Appendix F (NESHAP Subpart ZZZZZ, National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Renewal: Prior to 60 days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 60 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department. [Rule 62-4.090, F.A.C.]
8. Annual Operating Report (AOR): The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) District Office. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. [Rule 62-210.370(3), F.A.C.]

*{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If You have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at [eaor@dep.state.fl.us](mailto:eaor@dep.state.fl.us).}*

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**A. EU 001: Whiting Electric Arc Furnace**

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
001	Whiting #6/MT Electric Arc Furnace controlled by a Pangborn 2-compartment Baghouse

Emission Point	Emission Point Description
01	Molding Sand Operation. No Control Device

*Emission Unit 001 is a Whiting #6/MT, 7'3" Alternate Current Electric Arc Furnace, Serial Number 275 with a maximum capacity of 10,000 pounds. The EAF operates off the main power supply of 12,500 volts, 1,500 kW/Hr or 5.118 MMBtu/Hr. The unit was originally constructed in 1963 or prior. Particulate matter is controlled by one Pangborn 2 compartment Baghouse, Serial Number 72-175-1-03-01, 18,000 ACFM with a gas temperature of 120° F and a removal efficiency of approximately 98%.*

**PERFORMANCE RESTRICTIONS**

**A.1. Permitted Capacity:** The maximum charging rate shall not exceed 7,500 pounds per heat\* and 1687.5 tons per year of raw materials (scrap metal consisting of iron and steel, and non-scrap alloys). All materials shall be weighed prior to being charged in the furnace.

\* Basis 7,500 lb/heat; 9 heats/week, 50 weeks/year.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C. and Permit No. 0010007-006-AC]

**A.2. Molding Sand Operation - Capacity:** The nominal sand usage rate for the preparation of molds and cores is 3,240 pounds per hour. The nominal molding sand adhesives usage rates used in this process are stated below:

Molding Sand Adhesive	Annual Usage
Ramset 7000	3960 gallons
Ramset 7109	330 gallons
Green Hornet	25 gallons
Ramset 7185	110 gallons

**Permitting Note:** Based on application information submitted March 23, 2007. This information is for informational purposes only and is not to be construed as a maximum usage permit limit. This information should be used, along with that in Specific Condition Nos. A.26. and A.27., to track VOC, individual HAP, and total HAPs from this activity for Potential to Emit (PTE) purposes.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., Operation Permit Application information dated 3/23/07]

**A.3. Restricted Operation:** The hours of operation of are limited to no more than 8 H/D; 5 D/W, 52 W/Y and 2,080 H/Y. The hours of operation shall be recorded and maintained by the facility. [Rules 62-4.160(2) & (14)(b) and 62-210.200(PTE), F.A.C. and Operation Permit No. 0010007-002-AO]

**A.4. Electric Arc Furnace Repairs.** This operation permit does not authorize repairs to the Electric Arc Furnace, including its components, such that construction, reconstruction, or modification as defined by federal or state regulations occurs.

*Electric arc furnace (EAF)* means a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes.

For the purposes of this permit condition, consistent with the Subpart definition, an EAF shall consist of the furnace shell and roof and the transformer. [40 CFR 60.270a]

*State and Federal definitions of construction, reconstruction, and modification* are found in State Rule 62-210.200, F.A.C., federal regulations 40 CFR 60 Subpart A (§60.2), and 40 CFR 63 Subpart A (§63.2). Additional requirements for modification and reconstruction are found in State Rule 62-210.300, F.A.C. (See Section 2. Administrative Requirements Condition #6), and federal

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 001: Whiting Electric Arc Furnace

#### Specific condition A.4. continued:

regulations 40 CFR 60 Subpart A (§§60.14 and 60.15). Referenced definitions and regulations are attached as appendices of this permit.

[40 CFR 60.270a and Operation Permit No. 0010007-008-AO]

#### EMISSIONS STANDARDS

##### A.5. Emissions Standards:

- a. Electric Arc Furnace- Baghouse Controlled Visible Emissions. The Pangborn baghouse shall be operated such that Visible emissions from the electric arc furnace shall not exceed 5 percent opacity. This opacity is applicable when the furnace is up right with the roof in place. [Operation Permit No. 0010007-008-AO and Rule 62-297.620(4), F.A.C.]
- b. Electric Arc Furnace-Fugitive Visible Emissions. Visible emissions from this emissions unit, when the furnace is not up right or the roof is retracted, shall be less than 20 percent opacity. [Operation Permit No. 0010007-008-AO and Rule 62-296.320(4)(b) 1., F.A.C.]

#### TESTING REQUIREMENTS

- A.6. Annual Compliance Tests: During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), the emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(8)(a)1, F.A.C.]
- A.7. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
- A.8. Test Methods: Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

#### RECORDS AND REPORTS

- A.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the operating rate of the emission unit. [Rule 62-297.310(10), F.A.C.]
- A.10. Control Devices Operation and Maintenance Plan. The baghouses shall be maintained in accordance with the Operation and Maintenance Plan submitted August 31, 2006. All activities shall be performed as scheduled and recorded. This information shall be retained for at least 3 years from the date of measurement or recording, and be readily assessable for onsite review by the Department. [Rule 62-4.160(7), F.A.C., Rule 62-4.160(14)(b), F.A.C. and Operation Permit 0010007-004-AO]
- A.11. Operations and Processing Rate Records. In order to demonstrate compliance with the requirements in **Specific Condition Nos. A.1. through A.3.** of this permit, the permittee shall maintain a log at the facility of the following:
  - a. The quantity (weight) of scrap metal charged to Electric Arc Furnace
  - b. The quantity (weight) of non-scrap alloys charge to the Electric Arc Furnace
  - c. The rolling, 12-month summation of the weight of scrap metal and non-scrap alloys charged

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### A. EU 001: Whiting Electric Arc Furnace

- d. Hours of Operation of Electric Arc Furnace
- e. The core and mold sand handling rate

This information shall be retained for at least 3 years from the date of measurement or recording, and be readily assessable for onsite review by the Department. [Rule 62-4.160(7), F.A.C., Rule 62-4.160(14)(b), F.A.C. and Permit No. 0010007-006-AC]

- A.12.** VOC and HAP Emissions Records – Mold Sand Adhesives. The permittee shall maintain a record of the rolling, consecutive, 12-month total emissions of VOC, each individual HAP, and total HAPs for the adhesives used in the Mold Sand Operation. These pollutant emissions shall be determined by material balance calculations using the vendor supplied MSDS for the adhesive, the highest value in the range of pollutant content stated in the MSDS, the assumption that 100% of the pollutant contained in the adhesive is emitted, and the amount of adhesive purchased (as documented through purchase receipts, beginning and ending inventory records, and the amount of disposed adhesives). [Rule 62-210.370(2)(c), F.A.C. and Operation Permit No. 0010007-004-AO]
- A.13.** Reporting. The permittee shall submit a report of the information required in **Specific Condition Nos. A.11 and A.12** with the Application for Non-Title V Air Permit Renewal. [Operating Permit No. 0010007-008-AO]

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### B. EU 002: Finished Casting Grinding Booth Operation

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
003	Finished Casting Grinding Booth Operation

Emission Point	Emission Point Description
01	40 TPH Sand Silo (capacity)
02	Sand Blasting Operation.
03	Steel Shot Blast Machine Operation (Pangborn)  Air Pollution Control Equipment: Griffin Environmental Co, Inc. Baghouse described above.

*Emission Unit 003 consists of finished casting grinding booth operation, sand blasting operation and steel shot blast machine operation. The casting grinding booth operation, 40 TPH sand silo, and steel shot blast machine are controlled by a Griffin Environmental Co, Inc. 4 compartment Baghouse, Model M1-864. The sandblasting operation is uncontrolled.*

#### PERFORMANCE RESTRICTIONS

- B.1. Permitted Capacity – 40 TPH Sand Silo:** The nominal loading rate of the sand silo is 40 tons per hour. [Rule 62-210.200(PTE), F.A.C. and September 13, 2006 site-inspection information]
- B.2. Permitted Capacity – Finished Casting Grinding Booths Operation:** The nominal process rate is 625 tons per year of finished castings. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Operation Permit Application information dated May 6, 2003]
- B.3. Restricted Operation – Finished Casting Grinding Booths Operation.** The hours of operation for the Finished Casting Grinding Booths Operation are limited to no more than 16 H/D; 5 D/W, 52 W/Y and 4,160 H/Y. The hours that this activity is in operation shall be recorded and maintained by the facility. [Rules 62-4.160(2) & (14)(b), 62-210.200(PTE), F.A.C., Operation Permit No. 0010007-002-AO]
- B.4. Restricted Operation – Sand Blasting & Steel Shot Blast Machine Operations.** The hours of operation for both the Sand Blasting Operation and the Steel Shot Blast Machine are limited to no more than 9 H/D; 5 D/W, 52 W/Y and 2,340 H/Y. The hours of operation shall be recorded and maintained by the facility. [Rules 62-4.160(2) & (14)(b), 62-210.200(PTE), F.A.C., Application information dated March 23, 2007]

#### EMISSIONS STANDARDS

- B.5. Finished Casting Grinding Booths Operation – Visible Emissions.** The Griffin Environmental Co, Inc. baghouse shall be operated such that Visible emissions from this emissions unit shall not exceed 5 percent opacity. [Rule 62-297.620(4), F.A.C. and Operating Permit No. 0010007-002-AO]
- B.6. 40 TPH Sand Silo – Visible Emissions.** Visible emissions from this emissions unit, during loading and unloading, shall not exceed 5 percent opacity. [Rule 62-297.620(4), F.A.C. and Operating Permit No. 0010007-004-AO]

#### TESTING REQUIREMENTS

- B.7. Annual Compliance Tests:** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), the emissions unit (Griffin Environmental Co, Inc. 4 compartment Baghouse, Model M1-864) shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(8)(a)1, F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**B. EU 002: Finished Casting Grinding Booth Operation**

**B.8. Test Requirements:** The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

**B.9. Test Methods:** Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

**RECORDS AND REPORTS**

**B.10. Test Reports:** The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the operating rate of the emission unit. [Rule 62-297.310(10), F.A.C.]

**B.11. Control Device Operation and Maintenance Plan.** The baghouses shall be maintained in accordance with the Operation and Maintenance Plan submitted August 31, 2006. All activities shall be performed as scheduled and recorded. This information shall be retained for at least 3 years from the date of measurement or recording, and be readily assessable for onsite review by the Department. [Rule 62-4.160(7), F.A.C., Rule 62-4.160(14)(b), F.A.C. and Operation Permit No. 0010007-004-AO]

**B.12. Operations and Processing Rate Records.** In order to demonstrate compliance with the requirements in **Specific Condition Nos. B.1. through B.4.** of this permit, the permittee shall maintain a log at the facility of the following:

- a. Hours of Operation of Sand/Steel shot blasting
- b. A rolling, consecutive twelve- month total of Sand used in the Sand blasting operation, as determined from inventory records on a monthly basis
- c. A rolling, consecutive twelve- month total of Steel shot used in the Steel shot blast machine operation, as determined from inventory records on a monthly basis
- d. Hours of Operation of Finished Casting Grinding Booths Operation

This information shall be retained for at least 3 years from the date of measurement or recording, and be readily assessable for onsite review by the Department. [Rule 62-4.160(7), F.A.C., Rule 62-4.160(14)(b), F.A.C. and Operating Permit No. 0010007-004-AO]

**B.13. Reporting.** The permittee shall submit a report of the information required in **Specific Condition No. B.12** with the Application for Non-Title V Air Permit Renewal. [Operating Permit No. 0010007-004-AO]

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### C. EU 004: Electric Induction Furnace

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
004	Brown/Boveri-ISNG 3.5 electric induction furnace (3.5 ton, 720 kW coreless)

*{Permitting Note: This emissions unit is for (2) additional electric induction furnaces. However, the Ajax Tocco Magnethermic and the Brown Boveri-ISNG 1.5 electric induction furnaces have not been constructed/installed as of the date of issuance of this operation permit. The construction/installation of these two furnaces are addressed in Construction Permit No. 0010007-006-AC}*

#### PERFORMANCE RESTRICTIONS

**C.1. Electric Induction Furnaces - Permitted Capacity.** The maximum charging rate of raw materials (scrap metal consisting of iron, steel, and stainless steel, and non-scrap alloys) shall not exceed the following:

	Maximum charge Rate (lbs/heat)	Maximum Heats per Day (24-hours)	Maximum Operating Days per week	Maximum Annual Production (TPY) <sup>1</sup>
Brown/Boveri-ISNG 3.5	7000	7	3	3354 <sup>2</sup>

All materials shall be weighed prior to being charged in the furnace.

<sup>1</sup> Based on rolling, 12-month summation of material charged/melted in furnace.

<sup>2</sup> Maximum daily (24-hr) charge of 43,000 lbs (Heats 1-6: 6,000 lbs/heat; Heat 7: 7,000 lbs/heat). Daily charge x Maximum Operating Days per week x 52 weeks per year x 1 ton per 2,000 pounds.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. 0010007-006-AC]

**C.2. Restricted Operation – Electric Induction Furnace.** The hours of operation for the Electric Induction Furnace is limited to no more than 24 H/D; 3 D/W, 52 W/Y and 3,744 H/Y. The hours that this furnace is in operation shall be recorded and maintained by the facility. [Rules 62-4.160(2) & (14)(b) and 62-210.200(PTE), F.A.C. and Permit No. 0010007-006-AC]

#### EMISSIONS STANDARDS

**C.3. Visible Emissions.** Except for emissions unit that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.; Permit No. 0010007-006-AC]

#### TESTING REQUIREMENTS

**C.4. Special Compliance Tests.** When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit, unless the Department obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the Department in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C. and Permit No. 0010007-006-AC]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

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**C. EU 004: Electric Induction Furnace**

**C.5. Test Requirements:** The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

**C.6. Test Methods:** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

**RECORDS AND REPORTS**

**C.7. Operations and Processing Rate Records.** In order to demonstrate compliance with the requirements in Specific Condition No. C.2. of this permit, the permittee shall maintain a monthly log at the facility of the following:

- a. The quantity (weight) of scrap metal charged to the Electric Induction Furnace.
- b. The quantity (weight) of non-scrap alloys charge to the Electric Induction Furnace.
- c. The rolling, 12-month summation of the weight of the scrap metal and non-scrap alloys charged
- d. Hours of Operation of the Electric Induction Furnace.

This information shall be retained for at least 3 years from the date of measurement or recording, and be readily assessable for onsite review by the Department. [Permit No. 0010007-006-AC]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**D. NESHAP Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources - Common Conditions**

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
FAC	Facility Wide - Foundry

*{Permitting notes: The foundry is regulated under: Rule 296.320(4)(b)1., F.A.C.; 40 CFR 63 Subpart ZZZZZ- National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources, adopted and incorporated by reference in Rule 62-204.800, F.A.C., In accordance with the definitions of this subpart, this emissions unit is classified as an existing small foundry. This subsection of the permit contains the 40 CFR 63 Subpart ZZZZZ standards applicable to existing small foundries. Should the foundry be reclassified, the applicable 40 CFR 63 Subpart ZZZZZ standards are stated in Appendix of this permit }*

**D.1. NESHAP, 40 CFR 63 Subpart ZZZZZ Applicability.** This facility is an iron steel foundry and shall comply with applicable provisions of 40 CFR 63 Subpart ZZZZZ. The facility is classified as an existing, small foundry.

*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.

*Small foundry* means, for an existing affected source, an iron and steel foundry that has an annual metal melt production of 20,000 tons or less. For a new affected source, *small foundry* means an iron and steel foundry that has an annual metal melt capacity of 10,000 tons or less.

[40 CFR 63.10906(def); 63.10880(a), 63.10880(b)(1), 63.10880(f)]

**D.2. 40 CFR 63, Subpart A – General Provision.** You must comply with the following requirements of the General Provisions (40 CFR part 63, subpart A): §§63.1 through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§63.13 through 63.16. Requirements of the General Provisions not cited in the preceding sentence do not apply to you of a new or existing affected source that is classified as a small foundry. [40 CFR 63.10890(i) and Rule 62-204.800(11)(b)104., F.A.C.]

**POLLUTION PREVENTION MANAGEMENT PRACTICES**

**D.3. Metallic scrap management program:** For each segregated metallic scrap storage area, bin or pile, you must comply with the materials acquisition requirements in paragraph (1) or (2) of this Condition.

You must keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties, and provide a copy to each of your scrap providers. You may have certain scrap subject to paragraph (1) of this condition and other scrap subject to paragraph (2) of this condition at your facility provided the metallic scrap remains segregated until charge make-up.

- (1) Restricted metallic scrap. The permittee must prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids. For the purpose of this subpart, “free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004 (incorporated by reference— see §63.14). The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.
- (2) General iron and steel scrap. The permittee must prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### D. NESHAP Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources - Common Conditions

foundry. The materials specifications must include at minimum the information specified in paragraph (2)(i) or (ii) of this condition.

- (i) Except as provided in paragraph (2)(ii) of this condition, specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.
- (ii) For scrap charged to a cupola metal melting furnace that is equipped with an afterburner, specifications for metallic scrap materials to be depleted (to the extent practicable) of the presence of chlorinated plastics, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

[40 CFR 63.10885(a) and Rule 62-204.800(11)(b)104., F.A.C.]

**D.4. Mercury requirements:** For scrap **containing motor vehicle scrap**, you must procure the scrap pursuant to one of the compliance options in paragraphs (1), (2), or (3) of this condition for each scrap provider, contract, or shipment.

**For scrap that does not contain motor vehicle scrap**, you must procure the scrap pursuant to the requirements in paragraph (4) of this condition for each scrap provider, contract, or shipment.

You may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision.

- (1) Site-specific plan for mercury switches. The permittee must comply with the requirements in paragraphs (1)(i) through (v) of this condition.
  - (i) Site-specific plan for mercury switches. You must comply with the requirements in paragraphs (1)(i) through (v) of this condition.
  - (ii) You must prepare and operate according to a plan demonstrating how your facility will implement the scrap specification in paragraph (1)(i) of this condition for removal of mercury switches. You must submit the plan to the Administrator for approval. You must operate according to the plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by the Administrator or delegated authority within 60 days following disapproval of a plan. You may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the Administrator or delegated authority. The Administrator or delegated authority may change the approval status of the plan upon 90-days written notice based upon the semiannual report or other information.

The plan must include:

- a) A means of communicating to scrap purchasers and scrap providers the need to obtain or provide motor vehicle scrap from which mercury switches have been removed and the need to ensure the proper management of the mercury switches removed from the scrap as required under the rules implementing subtitle C of the Resource Conservation and Recovery Act (RCRA) (40 CFR parts 261 through 265 and 268). The plan must include documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the Administrator or delegated authority, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols;

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#### D. NESHAP Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources - Common Conditions

- b) Provisions for obtaining assurance from scrap providers' motor vehicle scrap provided to the facility meet the scrap specification;
  - c) Provisions for periodic inspections or other means of corroboration to ensure that scrap providers and dismantlers are implementing appropriate steps to minimize the presence of mercury switches in motor vehicle scrap and that the mercury switches removed are being properly managed, including the minimum frequency such means of corroboration will be implemented; and
  - d) Provisions for taking corrective actions (i.e., actions resulting in scrap providers removing a higher percentage of mercury switches or other mercury-containing components if needed, based on the results of procedures implemented in paragraph (1)(ii)c) of this condition).
- (iii) The permittee must require each motor vehicle scrap provider to provide an estimate of the number of mercury switches removed from motor vehicle scrap sent to the facility during the previous year and the basis for the estimate. The Administrator may request documentation or additional information at any time.
- (iv) The permittee must establish a goal for each scrap supplier to remove at least 80 percent of the mercury switches. Although a site-specific plan approved under paragraph(1) of this condition may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal.
- (v) For each scrap provider, the permittee must submit semiannual progress reports to the Administrator that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches removed, and certification that the removed mercury switches were recycled at RCRA-permitted facilities or otherwise properly managed pursuant to RCRA subtitle C regulations referenced in paragraph (1)(ii)(A) of this condition. This information can be submitted in aggregate form and does not have to be submitted for each shipment. The Administrator may change the approval status of a site-specific plan following 90-days notice based on the progress reports or other information.
- (2) *Option for approved mercury programs.* You must certify in your notification of compliance status that you participate in and purchase motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (2)(i) through (iii) of this condition. If you purchase motor vehicle scrap from a broker, you must certify that all scrap received from that broker was obtained from other scrap providers who participate in a program for the removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (2)(i) through (iii) of this condition. The National Mercury Switch Recovery Program and the State of Maine Mercury Switch Removal Program are EPA-approved programs under paragraph (2) of this condition unless and until the Administrator disapproves the program (in part or in whole) under paragraph (2)(iii) of this condition.
- (i) The program includes outreach that informs the dismantlers of the need for removal of mercury switches and provides training and guidance for removing mercury switches;
  - (ii) The program has a goal to remove at least 80 percent of mercury switches from motor vehicle scrap the scrap provider processes. Although a program approved under paragraph (2) of this condition may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal; and

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### D. NESHAP Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources - Common Conditions

- (iii) The program sponsor agrees to submit progress reports to the Administrator no less frequently than once every year that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and certification that the recovered mercury switches were recycled at facilities with permits as required under the rules implementing subtitle C of RCRA (40 CFR parts 261 through 265 and 268).

The progress reports must be based on a database that includes data for each program participant; however, data may be aggregated at the State level for progress reports that will be publicly available. The Administrator may change the approval status of a program or portion of a program (e.g., at the State level) following 90-days notice based on the progress reports or on other information.

- (iv) You must develop and maintain onsite a plan demonstrating the manner through which your facility is participating in the EPA-approved program.
- a) The plan must include facility-specific implementation elements, corporate-wide policies, and/or efforts coordinated by a trade association as appropriate for each facility.
  - b) You must provide in the plan documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the Administrator or delegated authority, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols.
  - c) You must conduct periodic inspections or other means of corroboration to ensure that scrap providers are aware of the need for and are implementing appropriate steps to minimize the presence of mercury in scrap from end-of-life vehicles.
- (3) Option for specialty metal scrap. You must certify in your notification of compliance status and maintain records of documentation that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.
- (4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in paragraphs (1) through (3) of this condition, you must certify in your notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

*{Permitting note: The applicant states in the initial notification received June 5, 2009, the facility does not use motor vehicle scrap.}*

[40 CFR 63.10885(b) and Rule 62-204.800(11)(b)104., F.A.C.]

#### NOTIFICATIONS, RECORDS, AND REPORTS

- D.5.** As required by §63.10(b)(1), the permittee must maintain files of all information (including all reports and notifications) 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. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10890(d) and Rule 62-204.800(11)(b)104.]
- D.6.** The permittee must maintain records of the information specified in paragraphs (1) through (7) of this condition according to the requirements in §63.10(b)(1).

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### D. NESHAP Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources - Common Conditions

- (1) Records supporting initial notification of applicability and notification of compliance status according to §63.10(b)(2)(xiv).
- (2) Records of written materials specifications according to Condition A.21. and records that demonstrate compliance with the requirements for restricted metallic scrap in Condition A.21.(1) and/or for the use of general scrap in **Condition D.3(2)** and for mercury in Condition A.22.(1) through (3), as applicable. The owner or operator must keep records documenting compliance with Condition A.22.(4) for scrap that does not contain motor vehicle scrap.
- (3) If the facility is subject to the requirements for a site-specific plan for mercury switch removal under Condition A.22.(1), the owner or operator must:
  - (i) 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; and
  - (ii) Submit semiannual reports 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, an estimate of the percent of mercury switches recovered, and a certification that the recovered mercury switches were recycled at RCRA-permitted facilities. The semiannual reports must include a certification that You have conducted periodic inspections or taken other means of corroboration as required under **Condition D.4(1)(ii)c)**. You must identify which option in paragraph Condition A.22. applies to each scrap provider, contract, or shipment. You may include this information in the semiannual compliance reports required under Condition A.18.
- (4) If the facility is subject to the option for approved mercury programs under Condition A.22.(2), the owner or operator must maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If the facility purchases motor vehicle scrap from a broker, the owner or operator must maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.
- (5) Records to document use of 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 Condition A.23. These records must be the Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet.
- (6) 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, Material Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
- (7) Records of metal melt production for each calendar year.

[40 CFR 63.10890(e) and Rule 62-204.800(11)(b)104., F.A.C.]

**D.7.** NESHAP, 40 CFR 63 Subpart ZZZZZ Semiannual Compliance Reports. You must submit semiannual compliance reports to the Administrator according to the requirements in §63.10(e). The report must clearly identify any deviation from the pollution prevention management practices in **Specific Condition Nos. D.3. and D.4.** and the corrective action taken. [40 CFR 63.10890(f) and Rule 62-204.800(11)(b)104., F.A.C.]