

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

September 20, 2021

PERMIT TO INSTALL
69-21

ISSUED TO
CWC Textron

LOCATED AT
1085 West Sherman Boulevard
Muskegon, Michigan 49441

IN THE COUNTY OF
Muskegon

STATE REGISTRATION NUMBER
B1909

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

| | |
|--|------------|
| DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: July 30, 2021 | |
| DATE PERMIT TO INSTALL APPROVED: September 20, 2021 | SIGNATURE: |
| DATE PERMIT VOIDED: | SIGNATURE: |
| DATE PERMIT REVOKED: | SIGNATURE: |

PERMIT TO INSTALL

Table of Contents

| | |
|--|----|
| COMMON ACRONYMS | 2 |
| POLLUTANT / MEASUREMENT ABBREVIATIONS..... | 3 |
| GENERAL CONDITIONS | 4 |
| EMISSION UNIT SPECIAL CONDITIONS..... | 6 |
| EMISSION UNIT SUMMARY TABLE | 6 |
| EU-POURING | 8 |
| FLEXIBLE GROUP SPECIAL CONDITIONS..... | 11 |
| FLEXIBLE GROUP SUMMARY TABLE | 11 |
| FG-MACT-ZZZZZ..... | 12 |
| FGFACILITY CONDITIONS..... | 16 |
| APPENDIX 3 | 18 |

COMMON ACRONYMS

| | |
|----------------------------|---|
| AQD | Air Quality Division |
| BACT | Best Available Control Technology |
| CAA | Clean Air Act |
| CAM | Compliance Assurance Monitoring |
| CEMS | Continuous Emission Monitoring System |
| CFR | Code of Federal Regulations |
| COMS | Continuous Opacity Monitoring System |
| Department/department/EGLE | Michigan Department of Environment, Great Lakes, and Energy |
| EU | Emission Unit |
| FG | Flexible Group |
| GACS | Gallons of Applied Coating Solids |
| GC | General Condition |
| GHGs | Greenhouse Gases |
| HVLP | High Volume Low Pressure* |
| ID | Identification |
| IRSL | Initial Risk Screening Level |
| ITSL | Initial Threshold Screening Level |
| LAER | Lowest Achievable Emission Rate |
| MACT | Maximum Achievable Control Technology |
| MAERS | Michigan Air Emissions Reporting System |
| MAP | Malfunction Abatement Plan |
| MSDS | Material Safety Data Sheet |
| NA | Not Applicable |
| NAAQS | National Ambient Air Quality Standards |
| NESHAP | National Emission Standard for Hazardous Air Pollutants |
| NSPS | New Source Performance Standards |
| NSR | New Source Review |
| PS | Performance Specification |
| PSD | Prevention of Significant Deterioration |
| PTE | Permanent Total Enclosure |
| PTI | Permit to Install |
| RACT | Reasonable Available Control Technology |
| ROP | Renewable Operating Permit |
| SC | Special Condition |
| SCR | Selective Catalytic Reduction |
| SNCR | Selective Non-Catalytic Reduction |
| SRN | State Registration Number |
| TBD | To Be Determined |
| TEQ | Toxicity Equivalence Quotient |
| USEPA/EPA | United States Environmental Protection Agency |
| VE | Visible Emissions |

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

| | |
|-------------------|--|
| acfm | Actual cubic feet per minute |
| BTU | British Thermal Unit |
| °C | Degrees Celsius |
| CO | Carbon Monoxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| dscf | Dry standard cubic foot |
| dscm | Dry standard cubic meter |
| °F | Degrees Fahrenheit |
| gr | Grains |
| HAP | Hazardous Air Pollutant |
| Hg | Mercury |
| hr | Hour |
| HP | Horsepower |
| H ₂ S | Hydrogen Sulfide |
| kW | Kilowatt |
| lb | Pound |
| m | Meter |
| mg | Milligram |
| mm | Millimeter |
| MM | Million |
| MW | Megawatts |
| NMOC | Non-Methane Organic Compounds |
| NO _x | Oxides of Nitrogen |
| ng | Nanogram |
| PM | Particulate Matter |
| PM10 | Particulate Matter equal to or less than 10 microns in diameter |
| PM2.5 | Particulate Matter equal to or less than 2.5 microns in diameter |
| pph | Pounds per hour |
| ppm | Parts per million |
| ppmv | Parts per million by volume |
| ppmw | Parts per million by weight |
| psia | Pounds per square inch absolute |
| psig | Pounds per square inch gauge |
| scf | Standard cubic feet |
| sec | Seconds |
| SO ₂ | Sulfur Dioxide |
| TAC | Toxic Air Contaminant |
| Temp | Temperature |
| THC | Total Hydrocarbons |
| tpy | Tons per year |
| µg | Microgram |
| µm | Micrometer or Micron |
| VOC | Volatile Organic Compounds |
| yr | Year |

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Emission Unit ID | Emission Unit Description (Including Process Equipment & Control Device(s)) | Installation Date / Modification Date | Flexible Group ID |
|------------------|--|--|-------------------|
| EU-BULK-BOND | A silo and bin which store bulk bond and have a pneumatic transport system. The silo and bin are each controlled by separate bin vent filters. | Install – 1/1/1964 | N/A |
| EU-DUCTILE-IRON | Equipment used for preparation of ductile iron which includes magnesium treatment vessels, a desulfurize ladle and an Ajax holding furnace. The furnace is also used for regular gray iron. Emissions from ductile treatment are controlled by Wheelabrator DC#5. | Install – 12/29/1995 | N/A |
| EU-NEW-SAND | A bin which stores new sand. The bin is controlled by a bin vent filter. | Install - 03/07/1980 | N/A |
| EU-WEST-CUPOLA-1 | Cupola #1, which is the west cupola. The emissions are controlled by two 5 MBtu direct flame afterburners, wet cap, a high energy venturi scrubber and a high velocity mist eliminator. Emission unit includes charging operations. | Install - 07/27/1977 | FG-MACT-ZZZZZ |
| EU-MP-RBB | Knockoff operation #227, Spiral Elevator #228 and Rocker Barrel Blast (finish blast). Emissions controlled by Baghouse collectors DC#13 and DC#1. | Install – 11/30/1998 Mod. – 1/5/2004 | N/A |
| EU-ACS-SAND | The ACS sand handling system. The system includes: New DC#19 which controls emissions from the sand cooler #16, the sand muller, the sand distribution tower, sand elevators #18 and #23 and from the sand basement. | Install – 1/1/1964 Mod. – 10/17/2011 | N/A |
| EU-CLEAN | Metal cleaning operations which include hand grinders, cut-off saw, stand grinders and the East and West tumblast shotblasters. Emissions from the metal cleaning operations and the West tumblast shotblast are controlled by Wheelabrator DC#1 and the East tumblast shotblast is controlled by Wheelabrator DC#5. | Install – 1/1/1964 | FG-PARTICULATE |
| EU-FINISHING | Metal finishing operations including milling, drilling, stand grinders, and finishing machines. Emissions from the metal finishing operations are controlled by Pangborn DC#2. | Install – 03/25/1983 | FG-PARTICULATE |

| Emission Unit ID | Emission Unit Description (Including Process Equipment & Control Device(s)) | Installation Date / Modification Date | Flexible Group ID |
|-------------------------|---|--|--------------------------|
| EU-SHAKEOUT | Foundry shakeout includes the Vibra Drum #212, Shakeout #213 and the degating conveyor #225. Emissions are controlled by baghouses DC#17 and DC#6. Mold Dump #211 is controlled by DC#12. | Install – 1/1/1964 Mod. – 1/5/2004 | FG-PARTICULATE |
| EU-AJAX-FURN | The East and West Ajax holding furnaces. | Install – 1/1/1964 | FG-PARTICULATE |
| EU-POURING | Iron pouring operation including both manual and automatic pouring operations | Install – 1/1/1964 Mod. – 2015, 2021 | FG-PARTICULATE |
| EU-COOLING | 1/. | Install – 1/1/1964 | FG-PARTICULATE |

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

**EU-POURING
EMISSION UNIT CONDITIONS**

DESCRIPTION

Iron pouring operation including both manual and automatic pouring operations

Flexible Group ID: FG-PARTICULATE

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period/ Operating Scenario | Equipment | Monitoring/ Testing Method | Underlying Applicable Requirements |
|-----------|-----------------------|------------------------------------|------------|----------------------------------|--|
| 1. PM | 0.27 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |
| 2. PM10 | 0.15 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |
| 3. PM2.5 | 0.08 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |
| 4. CO | 2.597 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |
| 5. NOx | 0.01 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |
| 6. VOC | 0.14 lb/ton of metal | Hourly | EU-POURING | SC V.1, VI.2 SC VI.3 | R 336.2804 40 CFR 52.21(d) |

II. MATERIAL LIMIT(S)

| Material | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------------|-------------------------------|-------------------------------------|------------|-----------------------------------|--|
| 1. Metal melted | 576 tons per day ¹ | Daily | EU-POURING | SC VI.3 | R 336.1225 |

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- The permittee shall verify particulate matter (PM, PM10, and PM2.5), VOC, nitrogen oxide (NOx) and carbon monoxide (CO) emission rates from EU-POURING by testing at owner's expense, in accordance with the Department requirements at a minimum, once every 5 years. Testing shall be performed using an approved EPA Method listed in:

| Pollutant | Test Method Reference |
|-----------------|---|
| PM, PM10, PM2.5 | 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules |
| NOx | 40 CFR Part 60, Appendix A |
| VOC | 40 CFR Part 60, Appendix A |
| CO | 40 CFR Part 60, Appendix A |

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

- Verification of visible emissions from the four EU-POURING vents SV-POUR1, SV-POUR2, SV-POUR3, and SV-POUR4 shall be performed and documented once daily by non-certified visible emissions readings while the emission unit is operating, per Appendix 3. **(R 336.1301(1)(c))**
- The permittee shall calculate and maintain monthly records, in a format acceptable to the AQD District Supervisor, of 12-month rolling emission rates of PM, PM-10, PM-2.5, CO, NOx, and VOC calculated in the appropriate units and using emission factors approved by the AQD District Supervisor. **(R 336.1205 (3))**
- The permittee shall monitor and record, in a satisfactory manner, the tons of metal melted per calendar day. The permittee shall keep all records on file at the facility and make them available to the Department upon request.¹ **(R 336.1225)**

See Appendix 3

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|-----------------|-------------------------------------|------------------------------------|---|
| 1. SV-POUR1 | 84 | 49 | R 336.1225 40 CFR 52.21(c) & (d) |
| 2. SV-POUR2 | 36 | 47 | R 336.1225 40 CFR 52.21(c) & (d) |
| 3. SV-POUR3 | 84 | 49 | R 336.1225 40 CFR 52.21(c) & (d) |

| Stack & Vent ID | Maximum Exhaust Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|----------------------------|--|---|---|
| 4. SV-POUR4 | 36 | 47 | R 336.1225 40 CFR 52.21(c) & (d) |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Flexible Group ID | Flexible Group Description | Associated Emission Unit IDs |
|--------------------------|--|--|
| FG-MACT-ZZZZZ | The affected source is an existing iron and/or steel foundry, that is (or is part of) an area source of hazardous air pollutant (HAP) emissions. The affected source is an existing large foundry as defined by 40 CFR Part 63, Subpart ZZZZZ. | EU-WEST-CUPOLA-1 |
| FG-PARTICULATE | Various particulate emission sources. | EU-CLEAN, EU-FINISHING, EU-SHAKEOUT, EU-AJAX-FURN, EU-POURING, EU-COOLING |

FG-MACT-ZZZZZ
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

The affected source is an existing iron and/or steel foundry, that is (or is part of) an area source of hazardous air pollutant (HAP) emissions. The affected source is an existing large foundry as defined by 40 CFR Part 63, Subpart ZZZZZ.

Emission Unit: EU-WEST-CUPOLA-1

POLLUTION CONTROL EQUIPMENT

Two 5 MBtu direct flame afterburners, wet cap, a high energy venturi scrubber and a high velocity mist eliminator.

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|--------------------------------------|--|---|--|--|---|
| 1. Opacity (fugitive) | 20% 6-min. average, except for one 6-min. average per hour that does not exceed 30% | 6-minute average | Each Building or Structure Housing any Iron or Steel Foundry Emission Source | SC III.1 SC III.3 SC III.4 SC V.1 | 40 CFR 63.10895(e) |
| 2. PM ---OR--- Total Metal HAP | 0.8 pounds per ton of metal charged ---OR--- 0.06 pound per ton of metal charged | Hourly | EU-WEST-CUPOLA-1 | SC III.1 SC III.2 SC III.3 SC V.2 | 40 CFR 63.10895(c) |

II. MATERIAL LIMIT(S)

1. The permittee shall not utilize a binder chemical formulation that uses methanol as a specific ingredient of the catalyst formulation for a furfuryl alcohol warm box mold or core making line. This requirement does not apply to the resin portion of the binder system. **(40 CFR 63.10886)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. For each segregated metallic scrap storage area, bin or pile, the permittee must comply with the material acquisition requirements contained in 40 CFR 63.10885(a)(1) or 40 CFR 63.10885(a)(2). **(40 CFR 63.10885(a))**
2. For scrap containing motor vehicle scrap, the permittee must procure the scrap pursuant to one of the compliance options in 40 CFR 63.10885(b)(1), (2), or (3). **(40 CFR 63.10885(b))**
3. The permittee shall operate a capture and collection system for each metal melting furnace at a new or existing iron and steel foundry unless that furnace is specifically uncontrolled as part of an emissions averaging group. Each capture and collection system must meet accepted engineering standards, such as those published by the American Conference of Governmental Industrial Hygienists. **(40 CFR 63.10895(b))**

4. The permittee shall prepare and operate at all times according to a written Operation and Maintenance Plan (O&M Plan) for each control device for an emissions source subject to a PM, metal HAP, or opacity emissions limit in 40 CFR 63.10895. At a minimum the plan must contain the information listed in 40 CFR 63.10896(a)(1)-(6). **(40 CFR 63.10896)**
5. The permittee shall conduct inspections of each operating particulate matter control device for a metal melting furnace in accordance with 40 CFR 63.10897(a). **(40 CFR 63.10897(a))**
6. The permittee shall conduct monthly inspections of the equipment important to the performance of the total capture system in accordance with 40 CFR 63.10897(e). **(40 CFR 63.10897(e))**
7. The permittee shall implement and maintain an approved plan to address the pollution prevention management practices for metallic scrap and mercury switches by the applicable compliance date specified in 40 CFR 63.10881. The plan shall include the following:
 - a) Metallic scrap management program. **(40 CFR 63.10885(a))**
 - b) Mercury requirements. **(40 CFR 63.10885(b))**

The permittee shall revise the plan within 30 days after a change occurs. **(40 CFR 63.10885)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall conduct a performance test to demonstrate compliance with the opacity limit in 40 CFR 63.10895(e), following the test methods and procedures in 40 CFR 63.6(h)(5) and Table 1 of Subpart ZZZZ. Subsequent compliance testing shall be conducted no less frequently than every 6 months and each time a process change likely to increase fugitive emissions is made. **(40 CFR 63.10898(h), (40 CFR 63.10898(i),), R 336.2001, R 336.2003, R 336.2004)**
2. The permittee shall conduct performance testing to demonstrate compliance with applicable PM or Total Metal HAP emission rates from EU-WEST-CUPOLA-1 according to the requirements in 40 CFR 63.7(e)(1), and Table 1 of Subpart ZZZZ and paragraphs (d) through (g) of subsection 40 CFR 63.10898. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission 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. **(40 CFR 63.10898(b), R 336.2001, R 336.2003, R 336.2004)**
3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. **(R 336.2001(3))**
4. In the performance test report, the permittee must certify that the capture system operated normally during the performance test. **(40 CFR 63.10898(j))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall 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 40 CFR 63.10886. These records must be the Safety Data Sheets (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet. **(40 CFR 63.10890)**

2. The permittee shall 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. **(40 CFR 63.10899)**
3. The permittee shall keep records of the metal melt production for each calendar month. **(40 CFR 63.10899(6))**
4. The permittee shall keep records documenting compliance with scrap material specifications in accordance with 40 CFR 63.10899(b)(1),(2) and (3). **(40 CFR 63.10899(b)(1), (2) and (3))**
5. The permittee shall keep records demonstrating compliance with the O&M Plan requirements. **(40 CFR 63.10899(7))**
6. The permittee must install, operate, and maintain each CPMS or other measurement device according to the O&M plan. The permittee must record all information needed to document conformance with the requirements of the O&M plan. **(40 CFR 63.10897(f))**
7. In the event of an exceedance of an established emissions limitation (including an operating limit), the permittee must restore operation of the emissions source and record the corrective action in accordance with 40 CFR 63.10897(g) and 40 CFR 10899(b)(12). **(40 CFR 63.10897(g), 40 CFR 10899(b)(12))**
8. The permittee shall keep records of periodic inspections as well as any maintenance action on a particulate matter control device for a metal melting furnace. Records shall include, at a minimum, the information specified in 40 CFR 63.1089(b)(13)(i) through (iii). **(40 CFR 63.10899(b)(13))**
9. The permittee shall keep records of monthly inspections and repairs of equipment important to the performance of the total capture system for the metal melting furnace control equipment. **(40 CFR 63.10899(b)(10))**
8. The permittee shall keep records of emission information and operating and maintenance information to comply with the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZZ. The permittee shall keep all source emissions and operating and maintenance information on file at the facility for a period of at least 5 years and make them available to the Department upon request. **(40 CFR Part 63, Subparts A & ZZZZZ)**

VII. REPORTING

1. The permittee shall submit semiannual compliance reports to the Administrator according to the requirements in 40 CFR 63.10(e). The reports must include, at a minimum, the following information as applicable: **(40 CFR 63.10899(c))**
 - 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 on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other calibration checks, if applicable); and
 - c) Summary information on any deviation from the pollution prevention management practices in 40 CFR 63.10885 and 40 CFR 63.10886 and the operation and maintenance requirements 40 CFR 63.10896 and the corrective action taken.
2. If applicable, the permittee shall 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 the facility has conducted periodic inspections or taken other means of corroboration as required under 40 CFR 63.10885(b)(1)(ii)(C). The permittee shall identify which option in 40 CFR 63.10885(b) applies to each scrap provider, contract, or shipment. **(40 CFR 63.10899(b)(2)(i))**

3. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.2001(5))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and **ZZZZZ** for Iron and Steel Foundries by the initial compliance date. **(40 CFR Part 63, Subparts A and ZZZZZ)**

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------------|--------------------|--|------------------|------------------------------------|---|
| 1. Each Individual HAP | Less than 9.0 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1, VI.2 & VI.3 GC 13 | R 336.1205(3) |
| 2. Aggregate HAPs | Less than 22.5 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1, VI.2 & VI.3 GC 13 | R 336.1205(3) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not melt more than 129,325 tons per year of iron, based on a 12-month rolling time period, as determined at the end of each calendar month. (**R 336.1205, R 336.1225, R 336.1702, R 336.2803, R 336.2804**)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (**R 336.1201(3)**)

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (**R 336.1201(3)**)

1. Monthly records of iron melt quantities to determine compliance with the 12-month rolling limit of 129,325 tons. (**R 336.1205(3)**)
2. Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month. (**R 336.1205(3)**)

3. Individual and aggregate HAP emission calculations determining the cumulative emission rate of each during the first 12 months and the annual emission rate of each thereafter, in tons per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX 3 Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in EU-POURING, EU-BULK-BOND, EU-DUCTILE-IRON, EU-NEW-SAND, EU-WEST-CUPOLA-1, EU-MP-RBB, EU-ACS-SAND and FG-PARTICULATE.

The permittee shall conduct and record the following information during non-certified visual observations for opacity.

1. Visible emissions shall be recorded as "observed" or "not observed."
2. If visible emissions are observed, a description of the color of the emissions
3. If visible emissions are observed, the duration of the emission incident shall be recorded.
4. If visible emissions are observed, the maintenance supervisor shall be notified immediately.
5. A determination of cause and needed repairs and/or maintenance shall be made within 24 hours and recorded.
6. Repair and/or maintenance operations shall be performed within 48 hours of discovery.
7. Routine maintenance shall be performed according to the manufacturer's recommendations