

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT  
AIR QUALITY DIVISION**

April 23, 2010

**PERMIT TO INSTALL**  
No. 223-09

**ISSUED TO**  
JP Castings, Inc., dba Specialty Castings

**LOCATED AT**  
211 Mill Street  
Springport, Michigan 49284

**IN THE COUNTY OF**  
Jackson

**STATE REGISTRATION NUMBER**  
B4307

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Natural Resources and Environment. 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: <b>April 14, 2010</b>	
DATE PERMIT TO INSTALL APPROVED: <b>April 23, 2010</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**PERMIT TO INSTALL**

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant/Measurement Abbreviations</b>	
AQD	Air Quality Division	BTU	British Thermal Unit
ANSI	American National Standards Institute	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	dscf	Dry standard cubic foot
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H <sub>2</sub> S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO <sub>x</sub>	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality	PM	Particulate Matter
MIOSHA	Michigan Occupational Safety & Health Administration	PM10	PM less than 10 microns diameter
MSDS	Material Safety Data Sheet	PM2.5	PM less than 2.5 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour
NSPS	New Source Performance Standards	ppm	Parts per million
NSR	New Source Review	ppmv	Parts per million by volume
PS	Performance Specification	ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonably Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO <sub>2</sub>	Sulfur Dioxide
SC	Special Condition	THC	Total Hydrocarbons
SCR	Selective Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TAC	Toxic Air Contaminant	VOC	Volatile Organic Compounds
TEQ	Toxicity Equivalence Quotient	yr	Year
VE	Visible Emissions		

\* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

### 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 Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 conditions 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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**
  
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

**SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

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

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Flexible Group ID</b>
EUMIPCC	The iron melting, inoculating, pouring/casting, and cooling operations consisting of two electric induction furnaces (4,000 lbs/hr maximum process throughput capacity each), all controlled by one 40,000 cfm Industrial Ventilation System Dostar Reverse Air baghouse designated as Furnace Baghouse	FGFACILITY
EUSHELLCORE	The shell core making process consisting of two shell core machines with no emissions control	FGFACILITY
EUAIRSETCORE	The air set core making operations with no emissions control	FGFACILITY
EUOILCOREMAKING	The oil core making process consisting of one oil core machine and one 400,000 BTU/hr natural gas-fired core oven for curing, with no emissions control	FGFACILITY
EUSHOTBLASTING	The shot blasting operation consisting of one Wheelabrator shot blast machine and one GOFF shot blast machine, both controlled by one 55,000 cfm Mold Line Wheelabrator Ultra-Jet 120 TA model baghouse designated as Main Baghouse	FGFACILITY FGSANDHANDLING
EUSANDHANDLING	The sand handling process consisting of a shakeout table, conveyors, mold making equipment (three green sand mold making machines), screens, muller, and silos, all controlled by one 55,000 cfm Mold Line Wheelabrator Ultra-Jet 120 TA model baghouse designated as Main Baghouse	FGFACILITY FGSANDHANDLING
EUGRINDING	Multiple grinding stations (snag grinders, double wheel grinders, grinding tables), all controlled by one 7,500 cfm Wheelabrator #46 MPF cartridge dust collector designated as Wheelabrator Baghouse	FGFACILITY
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 336.1290.		

**The following conditions apply to: EUMIPCC**

**DESCRIPTION:** The iron melting, inoculating, pouring/casting, and cooling operations consisting of two electric induction furnaces (4,000 lbs/hr maximum process throughput capacity each).

**Flexible Group ID:** FGFACILITY

**POLLUTION CONTROL EQUIPMENT:** One 40,000 cfm Industrial Ventilation System Dostar Reverse Air baghouse designated as Furnace Baghouse

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs gas, on a dry basis	Protocol	EUMIPCC	GC 13	R 336.1205 (3), R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. Visible Emissions	10% Opacity	Six-minute average	EUMIPCC	GC 13	R 336.1331, R 336.1205

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate EUMIPCC unless the baghouse is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225)**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EUMIPCC unless a gauge, which measures the pressure drop across the baghouse is installed, maintained and operated in a satisfactory manner. The gauge will be installed inside the facility with the lines made of stainless or copper. A purge system will be installed to assure lines are kept clean of moisture and debris and to assure the integrity of the readings. **(R 336.1205)**

**V. TESTING/SAMPLING**

NA

**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 of the metal charged to the two electric induction furnaces combined on a monthly basis for EUMIPCC. **(R 336.1205)**
2. The permittee shall monitor continuously, and record daily, the pressure drop across the baghouse associated with the EUMIPCC. Records will also be kept when lines are purged and cleaned. The daily records and records of line cleaning shall be kept in a format acceptable to the AQD District Supervisor. **(R 336.1301, R 336.1331)**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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 Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVDUSTAR	55	52	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply to: EUSHELLCORE**

**DESCRIPTION:** The shell core making process consisting of two shell core machines with no emissions control

**Flexible Group ID:** FGFACILITY

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Resin-Coated Sand	420,000 lbs	12-month rolling time period	EUSHELLCORE	V.1	R 336.1205, R 336.1225

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**IV. DESIGN/EQUIPMENT PARAMETERS**

NA

**V. TESTING/SAMPLING**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period resin coated sand usage rates in pounds (lbs) for EUSHELLCORE, as required by SC II.1. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. (R 336.1205, R 336.1225)

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply to: EUAIRSETCORE**

**DESCRIPTION:** The air set core making operations with no emissions control

**Flexible Group ID:** FGFACILITY

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Furan Resin	150,000 lbs	12-month rolling time period	EUAIRSETCORE	V.1	R 336.1205
2. Furan Catalyst	75,000 lbs	12-month rolling time period	EUAIRSETCORE	V.1	R 336.1205

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**IV. DESIGN/EQUIPMENT PARAMETERS**

NA

**V. TESTING/SAMPLING**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period Furan resin and catalyst usage rates in pounds (lbs) for EUAIRSETCORE, as required by SC II.1 and II.2. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. (R 336.1205, R 336.1225)

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply to: EUOILCOREMAKING**

**DESCRIPTION:** The oil core making process consisting of one oil core machine and one 400,000 BTU/hr natural gas-fired core oven for curing.

**Flexible Group ID:** FGFACILITY

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Core Oil Usage Volume	11,000 gallons	12-month rolling time period	EUOILCOREMAKING	V.1	R 336.1205

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**IV. DESIGN/EQUIPMENT PARAMETERS**

NA

**V. TESTING/SAMPLING**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period core oil usage in gallons for EUOILCOREMAKING, as required by SC II.1. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. (R 336.1205, R 336.1225)

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply to: EUGRINDING**

**DESCRIPTION:** Multiple grinding stations (snag grinders, double wheel grinders, grinding tables)

**Flexible Group ID:** FGFACILITY

**POLLUTION CONTROL EQUIPMENT:** One 7,500 cfm Wheelabrator #46 MPF cartridge dust collector designated as Wheelabrator Baghouse

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
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Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs gas, on a dry basis	Protocol	EUGRINDING	GC 13	R 336.1205 (3), R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. Visible Emissions	10% Opacity	Six-minute average	EUGRINDING	GC 13	R 336.1331, R 336.1205

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate EUGRINDING unless the dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225)**

**IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EUGRINDING unless a gauge, which measures the pressure drop across the dust collector, is installed, maintained and operated in a satisfactory manner. The gauge will be installed inside the facility with the lines made of stainless or copper. A purge system will be installed to assure lines are kept clean of moisture and debris and to assure the integrity of the readings. **(R 336.1205)**

**V. TESTING/SAMPLING**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall monitor continuously, and record daily, the pressure drop across the baghouse associated with EUGRINDING. Records will also be kept when lines are purged and cleaned. The daily records and records of line cleaning shall be kept in a format acceptable to the AQD District Supervisor. **(R 336.1301, R 336.1331)**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVCARTRIDGE	44	18.5	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**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
FGSANDHANDLING	The shot blasting operation consisting of one Wheelabrator shot blast machine and one GOFF shot blast machine, and the sand handling process consisting of a shakeout table, conveyors, mold making equipment (three green sand mold making machines), screens, muller, and silos.	EUSHOTBLASTING and EUSANDHANDLING
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	EUMIPCC, EUSHELLCORE, EUOILCOREMAKING, EUSHOTBLASTING, EUSANDHANDLING, and EUGRINDING

**The following conditions apply to: FGSANDHANDLING**

**DESCRIPTION:** The shot blasting operation consisting of one Wheelabrator shot blast machine and one GOFF shot blast machine, and the sand handling process consisting of a shakeout table, conveyors, mold making equipment (three green sand mold making machines), screens, muller, and silos.

**Emission Units:** EUSHOTBLASTING and EUSANDHANDLING

**POLLUTION CONTROL EQUIPMENT:** One 55,000 cfm Mold Line Wheelabrator Ultra-Jet 120 TA model baghouse designated as Main Baghouse

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs gas, on a dry basis	Protocol	EUSHOTBLASTING and EUSANDHANDLING	GC 13	R 336.1205 (3), R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. Visible Emissions	10% Opacity	Six-minute average	EUSHOTBLASTING and EUSANDHANDLING	GC 13	R 336.1331, R 336.1205

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate FGSANDHANDLING unless the baghouse is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225)**

**IV. DESIGN/EQUIPMENT PARAMETERS**

- 1 The permittee shall not operate FGSANDHANDLING unless a gauge, which measures the pressure drop across the dust collector, is installed, maintained and operating in a satisfactory manner. The gauge will be installed inside the facility with the lines made of stainless or copper. A purge system will be installed to assure lines are kept clean of moisture and debris and to assure the integrity of the readings. **(R 336.1205)**

**V. TESTING/SAMPLING**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall monitor continuously, and record daily, the pressure drop across the baghouse associated with FGSANDHANDLING. Records will also be kept when lines are purged and cleaned. The daily records and records of line cleaning shall be kept in a format acceptable to the AQD District Supervisor. **(R 336.1301, R 336.1331)**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVULTRAJET	44	35.67	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply Source-Wide to: FGFACILITY**

**POLLUTION CONTROL EQUIPMENT: NA**

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period	Equipment	Testing/ Monitoring Method	Applicable Requirements
1. PM	45.0 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI. 2, VI.5, VI.6	R 336.1205(3)
2. PM10	45.0 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI. 2, VI.5, VI.6	R 336.1205(3)
3. VOC	45.0 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI. 2, VI.5, VI.6	R 336.1205(3)
4. Individual HAP	9 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI. 2, VI.5, VI.6	R 336.1205(3)
5. Aggregate HAPs	22.5 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	VI. 2, VI.5, VI.6	R 336.1205(3)

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Annual Metal Melt Production	20,000 tpy	12-month rolling time period	FGFACILITY	VI. 2	R 336.1205(3)

Note: The annual metal melt production limit for FGFACILITY is based upon the total amount of metal charged to all electric induction furnaces (40 CFR § 63.10906).

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. As an existing "small foundry" under the NESHAP, the permittee shall prepare and operate in compliance with written material specifications for metallic scrap according to 40 CFR 63.10885(a)(1). **(40 CFR 63.10885)**
2. As an existing "small foundry" under the NESHAP, the permittee shall operate in compliance with the no methanol requirement for the catalyst portion of each binder chemical formulation for a furfuryl alcohol warm box mold or core making line according to 40 CFR 63.10886. **(40 CFR 63.10885)**
3. As an existing "small foundry" under the NESHAP, the permittee shall comply with the requirements for scrap that does not contain motor vehicle scrap in accordance with 40 CFR 63.10885(b)(4). **(40 CFR 63.10885)**

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

NA

#### **V. TESTING/SAMPLING**

NA

#### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall keep, in a satisfactory manner, records of monthly and 12-month rolling time period metal melt production in tons for FGFACILITY, as required by SC II.1. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **(R 336.1205, R 336.1225)**
2. 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 Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet. **(40 CFR 63.10890)**
3. 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, Material Safety Data Sheets, or other documentation that provide information on the binder or coating materials used. **(40 CFR 63.10890)**
4. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **(R 336.1205(3))**
5. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period PM, PM10, VOC, individual HAP, and aggregate HAP emission calculation records for FGFACILITY, as required by SC I.1, SC I.2, SC I.3, SC I.4, and SC I.5. The permittee shall keep all records on file at for a period of at least five years and make them available to the Department upon request. **(R 36.1205(3))**
6. 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 required source emissions and operating and maintenance information on file at the facility for a period of at least five years and make them available to the Department upon request. **(40 CFR Part 63 Subparts A & ZZZZZ)**

#### **VII. REPORTING**

1. The permittee shall submit and keep a copy of an initial notification, notification of size classification, notifications of compliance status, and semi-annual certification reports as specified in 40 CFR 63.10890. **(40 CFR 63, Subpart ZZZZZ)**

#### **VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

1. The permittee shall submit a Preventive Maintenance/Malfunction Abatement Program for the plant operations within 30 days of the issuance of the permit. That will be submitted to the AQD District Office for approval. Contained in that program will be procedures to clean the horizontal ductwork that serves the casting grinding and shotblast operations under EUGRINDING and EUSHOTBLASTING, respectively. **(R 336.1205, R 336.1901, R 336.1910, R 336.1911)**
2. The permittee shall submit to the AQD District Office within 30 days of the approval of the permit the proper pressure drop ranges for the gauges serving EUGRINDING, EUMIPCC and FGSANDHANDLING. That can be submitted as a separate document or contained in the Preventative Maintenance/ Malfunction Abatement Program. **(R 336.1205, R 336.1901, R 336.1910, R 336.1911)**