

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

EFFECTIVE DATE: July 6, 2021

ISSUED TO

Asama Coldwater Manufacturing, Inc.

State Registration Number (SRN): N5814

LOCATED AT

180 Asama Parkway, Coldwater, Calhoun County, Michigan 49036

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-N5814-2021

Expiration Date: July 6, 2026

Administratively Complete ROP Renewal Application Due Between
January 6, 2025 and January 6, 2026

This Renewable Operating Permit (ROP) is issued in accordance with and subject to Section 5506(3) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Pursuant to Rule 210(1) of the administrative rules promulgated under Act 451, this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-N5814-2021

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(1) of Act 451. Pursuant to Rule 214a of the administrative rules promulgated under Act 451, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environment, Great Lakes, and Energy

Rex Lane, Kalamazoo District Supervisor

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AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

The permittee shall comply with all specific details in the permit terms and conditions and the cited underlying applicable requirements. All terms and conditions in this ROP are both federally enforceable and state enforceable unless otherwise footnoted. Certain terms and conditions are applicable to most stationary sources for which an ROP has been issued. These general conditions are included in Part A of this ROP. Other terms and conditions may apply to a specific emission unit, several emission units which are represented as a flexible group, or the entire stationary source which is represented as a Source-Wide group. Special conditions are identified in Parts B, C, D and/or the appendices.

In accordance with Rule 213(2)(a), all underlying applicable requirements are identified for each ROP term or condition. All terms and conditions that are included in a PTI are streamlined, subsumed and/or is state-only enforceable will be noted as such.

In accordance with Section 5507 of Act 451, the permittee has included in the ROP application a compliance certification, a schedule of compliance, and a compliance plan. For applicable requirements with which the source is in compliance, the source will continue to comply with these requirements. For applicable requirements with which the source is not in compliance, the source will comply with the detailed schedule of compliance requirements that are incorporated as an appendix in this ROP. Furthermore, for any applicable requirements effective after the date of issuance of this ROP, the stationary source will meet the requirements on a timely basis, unless the underlying applicable requirement requires a more detailed schedule of compliance.

Issuance of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**
- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**
- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**
2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**
3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**
4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
 - a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
 - c. Inspect, at reasonable times, any of the following:
 - i. Any stationary source.
 - ii. Any emission unit.
 - iii. Any equipment, including monitoring and air pollution control equipment.
 - iv. Any work practices or operations regulated or required under the ROP.
 - d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.
5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**
7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**
8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any 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).² **(R 336.1370)**
10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in Subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"² **(R 336.1301(1))**
 - a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
 - b. A limit specified by an applicable federal new source performance standard.

The grading of visible emissions shall be determined in accordance with Rule 303.

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
 - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.¹ **(R 336.1901(a))**
 - b. Unreasonable interference with the comfortable enjoyment of life and property.¹ **(R 336.1901(b))**

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).² **(R 336.2001)**
14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**
15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
 - a. The date, location, time, and method of sampling or measurements.
 - b. The dates the analyses of the samples were performed.
 - c. The company or entity that performed the analyses of the samples.
 - d. The analytical techniques or methods used.
 - e. The results of the analyses.
 - f. The related process operating conditions or parameters that existed at the time of sampling or measurement.
17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**
19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**
20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**
21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
 - a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
 - b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
 - c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
- Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; “based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete.” The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**
24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**
25. 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 appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor 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 conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.² **(R 336.1912)**

Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
- The applicable requirements are included and are specifically identified in the ROP.
 - The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.
- Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.
27. Nothing in this ROP shall alter or affect any of the following:
- The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
 - The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
 - The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

- d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**
28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
 - a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
 - b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
 - c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
 - d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
 - e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**
29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**
31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**
32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(10))**
33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
 - a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. **(R 336.1217(2)(a)(i))**
 - b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
 - c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. **(R 336.1217(2)(a)(iii))**
 - d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(9))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.
37. If the permittee is subject to 40 CFR Part 82 and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
- June 21, 1999,
 - Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
 - The date on which a regulated substance is first present above a threshold quantity in a process.
40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR Part 68)**

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan's State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. **(R 336.1213(12))**

Permit to Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.² **(R 336.1201(1))**
44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.² **(R 336.1201(8), Section 5510 of Act 451)**
45. The terms and conditions of a PTI 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 the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI 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. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.² **(R 336.1219)**
46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.² **(R 336.1201(4))**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

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-GFMELTPOUR	George Fisher Foundry - Metal melting, pouring, and casting cooling process equipment with two electric induction furnaces with a combined daily average melting capacity of 8 tons per hour. Emissions from these processes are controlled by a 49,000 dscfm baghouse (BH# GF608). Previous EU ID - EUMPCC-S1	06-17-1097 02-25-2004	FG-GFFOUNDRY FG-CAMUNITS FG-MACT5E_Existing
EU-GFSANDSYS	George Fisher Foundry - Mold making, shakeout, and sand processing equipment. Emissions from these processes are controlled by a 66,000 dscfm baghouse (BH# GF610). Previous EU ID - EU-SANDSYSTEM-S1.	06-17-1997 02-25-2004	FG-GFFOUNDRY FG-CAMUNITS
EU-SHOTBLAST	A shotblast machine with a mechanical pre-cleaner followed by a 7,500 scfm baghouse (BH# 603) that vents outside on or after August 14, 2006. Previous EU ID - EUSHOTBLAST-S1	06-17-1997 08-14-2006	NA
EU-DSMELTPOUR	DISA Foundry - Two electric induction melting furnaces with an 11-ton holding capacity each, and a monorail pouring station with three ladles. Emissions from melting and pouring processes are controlled by associated hoods, enclosures, ductwork, and a 37,500 acfm baghouse (BH# DS602). Previous EU ID - EU-MP-S1	12-01-2007	FG-DSFOUNDRY FG-CAMUNITS FG-MACT5E_New
EU-DSCOOLSHAK	DISA Foundry - Automated mold cooling conveyors and automated sand shakeout lines, including a flat deck shakeout system. Emissions from these processes are controlled by associated hoods, enclosures, ductwork, a baghouse (BH #DS606), and a regenerative thermal oxidizer. The exhaust gas flow from this unit is approximately 61,200 acfm. Previous EU ID - EU-MCS-S1	01-01-2007 06-20-2013	FG-DSFOUNDRY FG-CAMUNITS FG-MACT5E_New

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-DSMOLDSAND	DISA Foundry - Molding machine and related sand handling equipment. Emissions from the mold making process are controlled by associated hoods, enclosures, ductwork, and a 56,900 acfm baghouse (BH #DS608). Previous EU ID - EU-SS-S1.	12-01-2007	FG-DSFOUNDRY FG-CAMUNITS
EU-DSCOOLSHOT	DISA Foundry - The back section of casting cooling conveyors and a shot blast machine. Emissions from this emission unit are controlled by associated hoods, enclosures, ductwork, and a 65,360 acfm baghouse (BH #DS604). Previous EU ID - EU-CCFBACK-S1.	12-01-2007	FG-DSFOUNDRY FG-CAMUNITS
EU-COLDCLEAN1	Cold cleaner 1 is located in Casting EQS Area. New cold cleaners were placed into operation on or after July 1, 1979. Cold cleaner is exempt from Rule 201 pursuant to Rule 281(2)(h) or Rule 285(2)(r)(vi).	06-17-1997	FG- COLDCLEANERS
EU-COLDCLEAN2	Cold cleaner 2 is located in Machine Tool Room. New cold cleaners were placed into operation on or after July 1, 1979. Cold cleaner is exempt from Rule 201 pursuant to Rule 281(2)(h) or Rule 285(2)(r)(vi).	06-17-1997	FG- COLDCLEANERS
EU-COLDCLEAN3	Cold cleaner 3 is located in Tool Preset Area. New cold cleaners were placed into operation on or after July 1, 1979. Cold cleaner is exempt from Rule 201 pursuant to Rule 281(2)(h) or Rule 285(2)(r)(vi).	06-17-1997	FG- COLDCLEANERS
EU-DSCONVEYOR	DISA Foundry - Casting cooling vibratory conveyor section (#3107) that is covered and ventilated to a 28,000 dscfm baghouse (BH #DS606). Previous EU ID - EUCONVEYOR-S1.	01-01-2004	FG-RULE290
EU-EMERGEN1	DISA Foundry - Diesel fired emergency power generator.	01-07-2007	NA
EU-EMERGEN2	Paint Line Natural gas fired emergency power generator.	01-08-1996	NA
EU-PAINTLINE1	The GEOMET paint line systems consisting of a mixing room, a paint spray booth equipped with HVLP applicators and dry filter overspray control, and an induction cure process consisting of pre-curing and final cure steps for coating of metallic surfaces. Previous EU ID - EULINE1-S1	12-22-2011	FG-PAINTLINES FG-MACTMMMM
EU-PAINTLINE2	The GEOMET paint line systems consisting of a mixing room, a paint spray booth equipped with HVLP applicators and dry filter overspray control, and an induction cure process consisting of pre-curing and final cure steps for coating of metallic surfaces. Previous EU ID - EU-LINE2-S1	03-25-2014	FG-PAINTLINES FG-MACTMMMM

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-GRINDER1	Reichmann grinder for automatic deburring of round parts including brake discs, clutch plates and other miscellaneous metal parts. The grinder is exhausted to a Waltz-Holtz Dustar 70,000 ACFM reverse air fabric filter collector. The fabric filter collector will be used for future in plant environment control.	07-09-2018	FG-GRINDERS
EU-GRINDER2	Reichmann grinder for automatic deburring of round parts including brake discs, clutch plates and other miscellaneous metal parts. The grinder is exhausted to a Waltz-Holtz Dustar 70,000 ACFM reverse air fabric filter collector. The fabric filter collector will be used for future in plant environment control.	07-09-2018	FG-GRINDERS

**EU-GFMELTPOUR
EMISSION UNIT CONDITIONS**

DESCRIPTION

George Fisher Foundry - Metal melting, pouring, and casting cooling process equipment with two electric induction furnaces with a combined daily average melting capacity of 8 tons per hour. Emissions from these processes are controlled by a 49,000 dscfm baghouse (BH# GF608). Previous EU ID - EUMPCC-S1

Flexible Group ID: FG-GFFOUNDRY, FG-CAMUNITS, FG-MACT5E_Existing

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. CO	57.5 pph ²	Hourly	EU-GFMELTPOUR	SC V.1, V.2	R 336.1205(3)
2. PM	0.005 gr/dscf exhaust gases or 2.1 pph ²	Hourly	EU-GFMELTPOUR	SC V.1, V. 2	R 336.1331
3. VOC	10.0 pph ²	Hourly	EU-GFMELTPOUR	SC V.1, V.2	R 336.1702

4. Visible emissions from EU-GFMELTPOUR shall not exceed a six-minute average of 10 percent opacity.² **(R 336.1301, R 336.1331)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-GFMELTPOUR unless the associated baghouse is installed, maintained, and operated in a satisfactory manner.² **(R 336.1910)**
2. The permittee shall not operate EU-GFMELTPOUR unless the associated capture system and baghouse control system are installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan. **(R 338.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify CO, PM, and VOC emission rates from EU-GFMELTPOUR by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
CO	40 CFR Part 60, Appendix A

VOC	40 CFR Part 60, Appendix A
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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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

2. The permittee shall verify the CO, PM, and VOC emission rates from EU-GFMELTPOUR at a minimum, every five years from the date of the last test. **(R 336.1213(3), 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. On a daily basis, the permittee shall perform and record the results of a Federal Reference Test Method 22 non-certified 6-minute observation of visible emissions from SV-GFMP during daylight hours under routine maximum operating conditions. If any visible emissions are observed, the permittee shall initiate the following: **(R 336.1213(3))**
 - a. If emissions are observed for more than 15 minutes, the permittee shall perform and record the results of a Federal Reference Test Method 9 certified 6-minute observation of visible emissions.
 - b. If visible emissions are above the opacity limit, the permittee shall proceed with and record the appropriate corrective actions listed in the approved operation and maintenance (O & M) plan until visible emissions indicate compliance with the opacity limit.

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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-GFMP	52 ²	90 ²	40 CFR 52.21(c) & (d)

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 EEEEE for Iron and Steel Foundries by the compliance date. **(40 CFR Part 63, Subparts A and EEEEE)**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-GFSANDSYS
EMISSION UNIT CONDITIONS**

DESCRIPTION

George Fisher Foundry Mold making, shakeout, and sand processing equipment. Emissions from these processes are controlled by a 66,000 dscfm baghouse. (BH# GF610). Previous EU ID - EU-SANDSYSTEM-S1

Flexible Group ID: FG-GFFOUNDRY, FG-CAMUNITS

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. CO	7.5 pph ²	Hourly	EU-GFSANDSYS	SC V.1, V.2	R 336.1205(3)
2. PM	0.005 gr/dscf exhaust gases or 2.8 pph ²	Hourly	EU-GFSANDSYS	SC V.1, V.2	R 336.1331
3. VOC	6.0 pph ²	Hourly	EU-GFSANDSYS	SC V.1, V.2	R 336.1702

4. Visible emissions from EU-GFSANDSYS shall not exceed a six-minute average of 5 percent opacity.² **(R 336.1301, R 336.1331)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-GFSANDSYS unless the associated baghouse is installed, maintained, and operated in a satisfactory manner.² **(R 336.1910)**
2. The permittee shall not operate EU-GFSANDSYS unless the associated capture system and baghouse control system are installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan. **(R 338.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify CO, PM, and VOC emission rates from EU-GFSANDSYS by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
CO	40 CFR Part 60, Appendix A
VOC	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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

2. The permittee shall verify the CO, PM, and VOC emission rates from EU-GFSANDSYS at a minimum, every five years from the date of the last test. **(R 336.1213(3), 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. On a daily basis, the permittee shall perform and record the results of a Federal Reference Test Method 22 non-certified 6-minute observation of visible emissions from SV-GFSS during daylight hours under routine maximum operating conditions. If any visible emissions are observed, the permittee shall initiate the following: **(R 336.1213(3))**
 - a. If emissions are observed for more than 15 minutes, the permittee shall then perform and record the results of a Federal Reference Test Method 9 certified 6-minute observation of visible emissions.
 - b. If visible emissions are above the opacity limit, the permittee shall proceed with and record the appropriate corrective actions listed in the approved operation and maintenance (O & M) plan until visible emissions indicate compliance with the opacity limit.

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. 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 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-GFSS	62 ²	100 ²	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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-SHOTBLAST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

A shotblast machine with a mechanical pre-cleaner followed by a 7,500 scfm baghouse (bh #603) that vents outside after August 14, 2006. Previous EU ID - EUSHOTBLAST-S1

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 pounds per 1,000 pounds of exhaust gases ²	Hourly	EU-SHOTBLAST	SC V.1, VI.1	R 336.1331 Table 31 J

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-SHOTBLAST unless the associated baghouse is installed and operating properly.² **(R 336.1910)**
2. The permittee shall not operate EU-SHOTBLAST unless the associated capture system and baghouse control system are installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan. **(R 338.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Upon request by the AQD District Supervisor, the permittee shall verify PM emission rates from EU-SHOTBLAST by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules

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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

2. 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. On a daily basis, the permittee shall perform and record the results of a Federal Reference Test Method 22 non-certified 6-minute observation of visible emissions during daylight hours under routine maximum operating conditions. If any visible emissions are observed, the permittee shall perform preventative maintenance. The results shall be recorded in the baghouse maintenance log. **(R 336.1213(3)(a)(ii))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from the EU-SHOTBLAST stack shall be discharged unobstructed vertically upwards to the ambient air. **(R 336.1213(3))**

IX. OTHER REQUIREMENT(S)

1. The permittee shall perform and record preventative maintenance activities in accordance with the approved preventative maintenance plan. **(R 336.1213(3))**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-DSMELTPOUR
EMISSION UNIT CONDITIONS**

DESCRIPTION

DISA Foundry - Two electric induction melting furnaces with an 11-ton holding capacity each, and a monorail pouring station with three ladles. Emissions from melting and pouring processes are controlled by associated hoods, enclosures, ductwork, and a 37,500 acfm baghouse. (BH# DS602). Previous EU ID - EU-MP-S1

Flexible Group ID: FG-DSFOUNDRY, FG-CAMUNITS, FG-MACT5E_New

POLLUTION CONTROL EQUIPMENT

37,500 ACFM baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM ---or--- Total Metal HAP	0.001 gr/dscf ---or--- 0.00008 gr/dscf ²	Hourly	EU-DSMELTPOUR	SC V.1, V.3, VI.1	40 CFR 63.7690(a)(4)(i) or (ii) and (a)(6)(i) or (ii)
2. PM10	0.30 pph ²	Hourly	EU-DSMELTPOUR	SC V.2, V.4, V.5	40 CFR 52.21 (j) R 336.2810
3. VOC	5.28 pph ²	Hourly	EU-DSMELTPOUR	SC V.2, V.4, V.5	40 CFR 52.21 (j)
4. CO	44.55 pph ²	Hourly	EU-DSMELTPOUR	SC V.2, V.4, V.5	40 CFR 52.21 (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall implement procedures for igniting gases from mold vents in pouring areas and pouring stations that use a sand mold system as specified in the approved operation and maintenance (O&M) plan. These procedures may be waived if the permittee determines that the mold vent gases are not ignitable, ignite automatically, or cannot be ignited due to accessibility or safety issues. The permittee shall document and maintain records of this determination at the facility and make them available to the Department upon request.² **(40 CFR 63.7710(b)(6))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EU-DSMELTPOUR unless the associated capture system and baghouse control system are installed and operating in accordance with the approved operation and maintenance (O&M) plan.² **(R 336.1224, R 336.1225, R 336.1910, 40 CFR 52.21(j), 40 CFR Part 63.6 (e)(1)(i), 40 CFR 63.7710)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- The permittee shall conduct a performance test to demonstrate compliance with the applicable PM or Total Metal HAP emission rates from EU-DSMELTPOUR according to the requirements in 40 CFR 63.7(e)(1), following the test methods and procedures in 40 CFR 63.7732(b) or (c), and (h). No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing.

Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(40 CFR 63.7730(a), 40 CFR 63.7732)**

2. The permittee shall verify PM10, VOC, and CO emission rates from EU-DSMELTPOUR by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(R 336.1205(1)(a) and (b), R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(j))**
3. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance.² **(40 CFR 63.7731(a))**
4. The permittee shall verify PM10, VOC, and CO emission rates from EU-DSMELTPOUR by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in:

Pollutant	Test Method Reference
PM10	40 CFR Part 51, Appendix M
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved USEPA 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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

5. The permittee shall verify the PM10, VOC, and CO emission rates from EU-DSMELTPOUR, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
6. 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor the relative change in PM loading using a bag leak detection system for the EU-DSMELTPOUR baghouse.² **(40 CFR 63.7740(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. 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 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-DSMP	42 ²	118 ²	40 CFR 52.21 (c) & (d)

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 EEEEE for Iron and Steel Foundries by the compliance date. **(40 CFR Part 63, Subparts A and EEEEE)**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-DSCOOLSHAK
EMISSION UNIT CONDITIONS**

DESCRIPTION

DISA Foundry Automated mold cooling conveyors and automated sand shakeout lines, including a flat deck shakeout system. Emissions from these processes are controlled by associated hoods, enclosures, ductwork, a baghouse (BH #DS606), and a regenerative thermal oxidizer. The exhaust gas flow from this unit is approximately 61,200 acfm. Previous EU ID - EU-MCS-S1

Flexible Group ID: FG-DSFOUNDRY, FG-CAMUNITS, FG-MACT5E_New

POLLUTION CONTROL EQUIPMENT

Emissions from these processes are controlled by associated hoods, enclosures, ductwork, a baghouse, and a regenerative thermal oxidizer (RTO). The exhaust gas flow from this unit is approximately 61,200 acfm.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Volatile Organic HAP (VOHAP)	A flow-weighted average of 20 ppmv ²	Hourly	EU-DSCOOLSHAK	SC IV.1, V.1, V.3 – V.4, VI.1 – VI.3	40 CFR 63.7690(a)(10)
2. PM10	2.47 pph ²	Hourly	EU-DSCOOLSHAK	SC V.2 - V.4	40 CFR 52.21(j) R 336.2810
3. VOC	15.49 pph ²	Hourly	EU-DSCOOLSHAK	SC V.2 - V.4	40 CFR 52.21(j)
4. CO	62.70 pph ²	Hourly	EU-DSCOOLSHAK	SC V.2 - V.4	40 CFR 52.21(j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-DSCOOLSHAK unless the associated capture system, regenerative thermal oxidizer (RTO), and baghouse control system are installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1299, R 336.1702, R 336.1910, 40 CFR 52.21(j), 40 CFR 63.6(e)(1)(i), 40 CFR 63.7690(b), 40 CFR 63.7710)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of the RTO to monitor and record the temperature on a continuous basis, during operation of EU-DSCOOLSHAK. The proper operation of the RTO is maintaining the combustion temperature at or above the minimum combustion temperature established during the most recent performance test that demonstrates compliance with the VOHAP emission standard in SC I.1. The permittee shall revise the approved O & M plan to include the minimum RTO combustion temperature based on the most recent performance test that demonstrates compliance with the VOHAP emission standard in SC I.1.² **(R 336.1205, R 336.1225, R 336.1299, R 336.1702)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall conduct subsequent performance tests to demonstrate compliance with the VOHAP emission rate from EU-DSCOOLSHAK according to the requirements in 40 CFR 63.7(e)(1), following the test methods and procedures in 40 CFR 63.7732(f). No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(40 CFR 63.7730(a), R 336.1213)**
2. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits (PM10, VOC, CO) no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance.² **(40 CFR 63.7731(a), R 336.1213(3))**
3. The permittee shall verify PM10, VOC, CO, and VOHAP emission rates from EU-DSCOOLSHAK by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in:

Pollutant	Test Method Reference
PM10	40 CFR Part 51, Appendix M
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
VOHAP	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved USEPA 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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

4. The permittee shall verify the PM10, VOC, CO, and VOHAP emission rates EU-DSCOOLSHAK, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
5. 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall install, operate, and maintain a continuous parameter monitoring system (CPMS) for each capture system associated with EU-DSCOOLSHAK subject to the VOHAP emission limitation according to the requirements in 40 CFR 63.7740(a) and 40 CFR 63.7741(a).² **(40 CFR 63.7740(a), 40 CFR 63.7741(a))**
2. The permittee shall install, operate, and maintain a CEMS in accordance with Appendix 3.² **(40 CFR 63.7741(g))**
3. The permittee shall monitor at all times the 3-hour average VOHAP concentration using a CEMS according to the requirements of 40 CFR 63.7741(g) when EU-DSCOOLSHAK is operating.² **(40 CFR 63.7740(g))**
4. The permittee may request an alternative monitoring method to demonstrate compliance with the VOHAP emission limit according to the procedures in 40 CFR 63.7747.² **(40 CFR 63.7747)**
5. The permittee shall monitor and keep records, in a satisfactory manner, of the EU-DSCOOLSHAK capture system baghouse fan amperage for the capture system for EU-DSCOOLSHAK as defined in Section 4.2 of the facility MACT Operations and Maintenance Plan. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205, R 336.1225, R 336.1702(a))**

- The permittee shall install, calibrate, maintain and operate in a satisfactory manner a gauge to monitor and record the pressure drop across the EU-DSCOOLSHAK baghouse on a continuous basis when the EU-DSCOOLSHAK is operating.² (R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(j))

VII. REPORTING

- Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-DSCS	60 ²	118 ²	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

- 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 EEEEE for Iron and Steel Foundries by the compliance date. (40 CFR Part 63, Subparts A and EEEEE)

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-DSMOLDSAND
 EMISSION UNIT CONDITIONS**

DESCRIPTION

DISA Foundry - Molding machine and related sand handling equipment. Emissions from the mold making process are controlled by associated hoods, enclosures, ductwork, and a 56,900 acfm baghouse (BH #DS608). Previous EU ID - EU-SS-S1.

Flexible Group ID: FG-DSFOUNDRY, FG-CAMUNITS

POLLUTION CONTROL EQUIPMENT

56,900 acfm baghouse

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	2.30 pph ²	Hourly	EU-DSMOLDSAND	SC V.1-4, VI.1	40 CFR 52.21 (j) R 336.2810
2. VOC	4.00 pph ²	Hourly	EU-DSMOLDSAND	SC V.1-4, VI.1	40 CFR 52.21 (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EU-DSMOLDSAND unless the associated capture system and baghouse control system are installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan.² **(R 336.1224, R 336.1225, R 336.1910, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- The permittee shall verify PM10, and VOC emission rates from EU-DSMOLDSAND by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(R 336.1205(1)(a) and (b), R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(j), R 336.1213)**
- The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits, no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance.² **(R 336.2001, R 336.2003, R 336.2004, R 336.1213(3))**
- The permittee shall verify PM10 and VOC emission rates from EU-DSMOLDSAND by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in:

Pollutant	Test Method Reference
PM10	40 CFR Part 51, Appendix M
VOC	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved USEPA 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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

- The permittee shall verify the PM10 and VOC emission rates from EU-DSMOLDSAND, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
- 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- The permittee shall install, calibrate, maintain and operate in a satisfactory manner a gauge to monitor and record the pressure drop across the EU-DSMOLDSAND baghouse on a continuous basis when the baghouse is operating.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(j))**

VII. REPORTING

- Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
- 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 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-DSMS	52 ²	118 ²	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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-DSCOOLSHOT
 EMISSION UNIT CONDITIONS**

DESCRIPTION

DISA Foundry - The back section of casting cooling conveyors and a shot blast machine. Emissions from this emission unit are controlled by associated hoods, enclosures, ductwork, and a 65,360 acfm baghouse (BH #DS604). Previous EU ID - EU-CCFBACK-S1.

Flexible Group ID: FG-DSFOUNDRY, FG-CAMUNITS

POLLUTION CONTROL EQUIPMENT

DSCS baghouse – approximate flow of 65,360 ACFM

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	2.64 pph ²	Hourly	EU-DSCOOLSHOT	SC V.1 – V.4, SC VI.1	40 CFR 52.21 (j) R 336.2810

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-DSCOOLSHOT unless the associated capture system and baghouse control systems are installed and operating in accordance with the approved operation and maintenance (O&M) plan.² **(R 336.1224, R 336.1225, R 336.1910, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify PM10 emission rate from the DSCS Baghouse by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(R 336.1205(1)(a) and (b), R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(j), R 336.1213)**
2. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits, no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance.² **(R 336.2001, R 336.2003, R 336.2004, R 336.1213(3))**
3. The permittee shall verify PM10 emission rates from EU-DSCOOLSHOT by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved USEPA 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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

4. The permittee shall verify the PM10 emission rates from EU-DSCOOLSHOT, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
5. 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 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a gauge to monitor and record the pressure drop across the EU-DSCOOLSHOT baghouse on a continuous basis when the baghouse is operating.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(j))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. 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 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-DSCOOLSHOT	54 ²	118 ²	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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EU-EMERGEN1
EMISSION UNIT CONDITIONS**

DESCRIPTION

DISA Foundry - Diesel fired emergency power generator

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. HC	1.0 g/HP-hr	Hourly	EU-EMERGEN1	SC V.1 or VI.2	40 CFR 60.4205
2. NOx	6.9 g/HP-hr	Hourly	EU-EMERGEN1	SC V.1 or VI.2	40 CFR 60.4205
3. CO	8.5 g/HP-hr	Hourly	EU-EMERGEN1	SC V.1 or VI.2	40 CFR 60.4205
4. PM	0.40 g/HP-hr	Hourly	EU-EMERGEN1	SC V.1 or VI.2	40 CFR 60.4205

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Diesel Fuel	Sulfur content shall not exceed 15 ppm	Instantaneous	EU-EMERGEN1	SC VI.3	40 CFR 60.4207(b), 40 CFR 80.510(b)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall operate EU-EMERGEN1 in compliance with the emission limitations and operating limitations in this subpart. EU-EMERGEN1 must be operated and maintained at any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.6605, 40 CFR 60.4206)**
2. The permittee shall maintain and operate EU-EMERGEN1 per the manufacturer’s emission related written instructions or develop a maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. **(40 CFR 63.6640(a), 40 CFR 60.4211(a)(1))**
3. The permittee is not limited on hours of operation of EU-EMERGEN1 during emergency situations. **(40 CFR 63.6640(f)(1)(i))**
4. The permittee shall not exceed 100 hours per year for maintenance checks and readiness testing. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(1)(ii))**

5. The permittee may operate EU-EMERGEN1 up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, as allowed in 40 CFR 63.6640(f)(1)(iii). **(40 CFR 63.6640(f)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-EMERGEN1 unless a non-resettable hour meter to track the number of operational hours is installed and operating properly. **(R 336.1213(3), 40 CFR 60.4211(a))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 180 days after issuance of this permit, the permittee shall verify HC, NO_x, CO, and PM emission rates from EU-EMERGEN1, by testing at owner's expense, in accordance with Department requirements or by providing manufacturer's certification documentation as required in SC VI.2. If testing is to be performed, the permittee must submit a complete stack-testing plan to the AQD. No less than 60 days prior to testing, the permittee must submit a complete stack-testing plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004, 40 CFR 60.4211)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation, non-emergency operation and demand response operation. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3), 40 CFR 60.4214(b))**
2. The permittee shall keep, in a satisfactory manner, a record of testing required in SC V.1 or manufacturer's certification documentation indicating that EU-EMERGEN1 meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart IIII. The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**
3. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in EU-EMERGEN1, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. **(40 CFR 60.4207(a), 40 CFR 80.510(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as set forth in 40 CFR Part 60, Subparts A and IIII. **(40 CFR Part 60, Subparts A and IIII)**
2. The permittee shall comply with all applicable requirements of the federal National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as set forth in 40 CFR Part 63, Subparts A and ZZZZ. **(40 CFR Part 63, Subparts A and ZZZZ)**

EU-EMERGEN2 EMISSION UNIT CONDITIONS

DESCRIPTION

Paint Line – Natural gas fired emergency power generator

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The EU-EMERGEN2 shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 40 CFR 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63, Subpart ZZZZ, Table 2c:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.3; and
 - b. Inspect the spark plugs every 1,000 hours of operation or annually, whichever comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If EU-EMERGEN2 is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63, Subpart ZZZZ, Table 2c, Item 1)**

3. The permittee shall operate EU-EMERGEN2 in compliance with the emission limitations and operating limitations in this subpart. EU-EMERGEN2 must be operated and maintained at any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.6605)**
4. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 40 CFR 63.6625(j). **(40 CFR 63.6625(j))**
5. The permittee shall maintain and operate EU-EMERGEN2 per the manufacturer's emission related written instructions or develop a maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. **(40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR Part 63, Subpart ZZZZ, Table 6, Item 9)**

6. The permittee shall minimize the time spent at idle during startup and minimize the startup time of EU-EMERGEN2 to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. **(40 CFR 63.6625(h))**
7. The permittee is not limited on hours of operation of EU-EMERGEN2 during emergency situations. **(40 CFR 63.6640(f)(i))**
8. The permittee shall not exceed 100 hours per year for maintenance checks and readiness testing. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(ii))**
9. The permittee may operate EU-EMERGEN2 up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, as allowed in 40 CFR 63.6640(f)(iii). **(40 CFR 63.6640(f)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-EMERGEN2 unless a non-resettable hour meter to track the number of operational hours is installed and operating properly. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2c of this subpart. If this option is utilized, the oil analysis must be performed at the same frequency specified for changing the oil listed in Table 2c. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. **(40 CFR 63.6625(j))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**
2. The permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(5), 40 CFR 63.6660)**
3. The permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.1. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660)**

4. The permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**
5. The permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(f), 40 CFR 63.6660)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the federal National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as set forth in 40 CFR Part 63, Subparts A and ZZZZ. **(40 CFR Part 63, Subparts A and ZZZZ)**

D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

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-GFFOUNDRY	Flexible group that includes two emissions units. Previous FG ID - FG-FOUNDRY-S1	EU-GFMELTPOUR EU-GFSANDSYS
FG-COLDCLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278, Rule 278a and Rule 281(2)(h) or Rule 285(2)(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	EU-COLDCLEAN1 EU-COLDCLEAN2 EU-COLDCLEAN3
FG-RULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.	EU-DSCONVEYOR
FG-CAMUNITS	The equipment in this flexible group is subject to Compliance Assurance Monitoring, 40 CFR 64.6. Previous FG ID - FGCAM_UNITS-S1	EU-GFMELTPOUR EU-GFSANDSYS EU-DSMELTPOUR EU-DSCOOLSHAK EU-DSMOLDSAND EU-DSCOOLSHOT
FG-DSFOUNDRY	All emission units of the new expansion foundry. Previous FG ID - FG-NEWFOUNDRY-S1	EU-DSMELTPOUR EU-DSCOOLSHAK EU-DSMOLDSAND EU-DSCOOLSHOT
FG-PAINTLINES	Two GEOMET paint line systems each consisting of a mixing room, a paint spray booth equipped with HVLP applications and dry filter overspray control, and an induction cure process consisting of pre-curing and final cure steps for coating of metallic surfaces. Previous FG ID – FG-COATINGS	EU-PAINTLINE1 EU-PAINTLINE2
FG-METALLIC	All metallic surface coating lines and all associated purge and clean-up operations at the stationary source. This includes any metallic surface coating line covered by this or any other general permit or any permit to install issued pursuant to Rule 201, and any metallic surface coating line exempt from the requirement to obtain a permit to install pursuant to Rule 287 and/or Rule 290. Previous FG ID – FG-SOURCE	NA

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MACTMMMM	<p>Each new, reconstructed, and existing affected source described in 40 CFR 63.3881(a)(1), including the subcategories listed in 40 CFR Part 63, Subpart MMMM, 40 CFR 63.3881(a)(2) through (6), meeting the applicability requirements of 40 CFR 63.3881(b), which is engaged in the surface coating of miscellaneous metal parts and products. The affected source includes the collection of all the items listed in 40 CFR 63.3882(b)(1) through (4). Surface coating is defined by 40 CFR 63.3881, as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating. 40 CFR Part 63, Subpart MMMM, does not apply to surface coating or a coating operation that meets any of the criteria of 40 CFR 63.3881(c)(1) through (17). Previous FG ID - FG-MACT MMMM-S1</p>	<p>EU-PAINTLINE1 EU-PAINTLINE2</p>
FG-GRINDERS	<p>Two Reichmann grinders for automatic deburring of round parts including brake discs, clutch plates and other miscellaneous metal parts. The grinders are exhausted to a Waltz-Holtz Dustar 70,000 ACFM reverse air fabric filter collector. The fabric filter collector will be used for future in plant environment control.</p>	<p>EU-GRINDER1 EU-GRINDER2</p>
FG-MACT5E_Existing	<p>The affected source is an existing iron and steel foundry, that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. An existing affected source is a source that commences construction or reconstruction before December 23, 2002. The regulations cover emissions from metal melting furnaces, scrap preheaters, new pouring areas, pouring stations, new automated conveyor and new pallet cooling lines, new automated shakeout lines, mold and core making lines, and fugitive emissions from foundry operations.</p>	<p>EU-GFMELTPOUR</p>
FG-MACT5E_New	<p>The affected source is a new iron and steel foundry, that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. A new affected source is a source that commences construction or reconstruction on or after December 23, 2002. The regulations cover emissions from metal melting furnaces, scrap preheaters, new pouring areas, pouring stations, new automated conveyor and new pallet cooling lines, new automated shakeout lines, mold and core making lines, and fugitive emissions from foundry operations.</p>	<p>EU-DSMELTPOUR EU-DSCOOLSHAK</p>

**FG-GFFOUNDRY
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Flexible group that includes two emission units. Previous FG ID - FG-FOUNDRY-S1

Emission Units: EU-GFMELTPOUR, EU-GFSANDSYS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	19.4 tpy ²	12-month rolling time period	EU-GFMELTPOUR, EU-GFSANDSYS	SC VI.2	R 336.1205(3)
2. CO	156.0 tpy ²	12-month rolling time period	EU-GFMELTPOUR, EU-GFSANDSYS	SC VI.2	R 336.1205(3)
3. VOC	38.4 tpy ²	12-month rolling time period	EU-GFMELTPOUR, EU-GFSANDSYS	SC VI.2	R 336.1205(3) R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Metal	Metal melt rate shall not exceed 48,000 tons per year. ²	Based on a 12-month rolling time period as determined at the end of each calendar month.	EU-GFMELTPOUR, EU-GFSANDSYS	SC VI.1	R 336.1205(1) and (3), R 336.1225, R 336.1702(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-GFFOUNDRY for more than 7,872 hours per 12-month rolling time period as determined at the end of each calendar month.² (R 336.1205(1)(a) and (3), R 336.1225, R 336.1702(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor in a satisfactory manner the metal melt rate and hours of operation for FG-GFFOUNDRY on a monthly basis.² **(R 336.1205(1)(a) and (3), R 336.1225, R 336.1702(a))**
2. The permittee shall keep the following information on a monthly basis for FG-GFFOUNDRY:
 - a. Tons of metal processed.
 - b. Hours of operation.
 - c. Monthly and previous 12-month PM, CO, and VOC emission rates, calculated as follows. Monthly PM emissions from each baghouse shall be calculated by multiplying the PM emission rate (in pph) measured during the most recent stack test with the monthly operation hours. The sum of PM emissions from both baghouses divided by 2000 will determine the monthly total PM emissions in tons per month. This monthly PM emission rate will be added to the preceding 11-month total PM emission rate to determine a 12-month rolling emission rate (in tpy).

Monthly CO and VOC emission rates shall be calculated using the following emission factors:

EU-GFMELTPOUR:
5.75 lb CO/ton of melt
1.00 lb VOC/ton of melt

EU-GFSANDSYS:
0.75 lb CO/ton of melt
0.60 lb VOC/ton of melt

Monthly melt rates shall be multiplied with the appropriate factors from above to determine the monthly CO and VOC mass emissions from each baghouse. The sum of CO and the sum of VOC emissions from both baghouses divided by 2000 will determine the monthly total CO and VOC emissions in tons per month, respectively. These monthly emission rates will be added to the previous 11-month total emission rates of each CO and VOC to determine 12-month rolling emission rates in tons per year for CO and VOC. [Note: Alternate CO and VOC emission factors may be used upon prior approval from the District Supervisor].² **(R 336.1205(1) and (3), R 336.1225, R 336.1702(a))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-COLDCLEANERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278, Rule 278a and Rule 281(2)(h) or Rule 285(2)(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.

Emission Units: EU-COLDCLEAN1, EU-COLDCLEAN2, EU-COLDCLEAN3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use cleaning solvents containing more than five percent by weight of the following halogenated compounds: methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, or any combination thereof. **(R 336.1213(2))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Cleaned parts shall be drained for no less than 15 seconds or until dripping ceases. **(R 336.1611(2)(b), R 336.1707(3)(b))**
2. The permittee shall perform routine maintenance on each cold cleaner as recommended by the manufacturer. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:
 - a. The air/vapor interface of the cold cleaner is no more than ten square feet. **(R 336.1281(2)(h))**
 - b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment. **(R 336.1285(2)(r)(iv))**
2. The cold cleaner shall be equipped with a device for draining cleaned parts. **(R 336.1611(2)(b), R 336.1707(3)(b))**
3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner. **(R 336.1611(2)(a), R 336.1707(3)(a))**
4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated. **(R 336.1707(3)(a))**
5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:
 - a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7. **(R 336.1707(2)(a))**

- b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0. **(R 336.1707(2)(b))**
- c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD. **(R 336.1707(2)(c))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- 1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions. **(R 336.1213(3))**
- 2. The permittee shall maintain the following information on file for each cold cleaner: **(R 336.1213(3))**
 - a. A serial number, model number, or other unique identifier for each cold cleaner.
 - b. The date the unit was installed, manufactured or that it commenced operation.
 - c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(2)(h).
 - d. The applicable Rule 201 exemption.
 - e. The Reid vapor pressure of each solvent used.
 - f. If applicable, the option chosen to comply with Rule 707(2).
- 3. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner. **(R 336.1611(3), R 336.1707(4))**
- 4. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis. **(R 336.1213(3), R 336.1611(2)(c), R 336.1707(3)(c))**

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
- 2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FG-RULE290 FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.

Emission Units installed on or after December 20, 2016: NA

Emission Units installed prior to December 20, 2016: EU-DSCONVEYOR (EU-CONVEYOR_S1)

POLLUTION CONTROL EQUIPMENT

Baghouse (BH #DS606)

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds or noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, if the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively. **(R 336.1290(2)(a)(i))**
2. Any emission unit for which CO₂ equivalent emissions are not more than 6,250 tons per month and for which the total uncontrolled or controlled emissions of all other air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: **(R 336.1290(2)(a)(ii))**
 - a. For toxic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 micrograms per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(2)(a)(ii)(A))**
 - b. For toxic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(2)(a)(ii)(B))**
 - c. The emission unit shall not emit any toxic air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. **(R 336.1290(2)(a)(ii)(C))**
 - d. For total mercury, the uncontrolled or controlled emissions shall not exceed 0.01 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(D))**
 - e. For lead, the uncontrolled or controlled emissions shall not exceed 16.7 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(E))**
3. Any emission unit that emits only particulate air contaminants without initial risk screening levels and other air contaminants that are exempted under Rule 290(2)(a)(i) or Rule 290(2)(a)(ii), if all the following provisions are met: **(R 336.1290(2)(a)(iii))**
 - a. The particulate emissions are controlled by an appropriately designed and operated fabric filter collector or an equivalent control system which is designed to control particulate matter to a concentration of less than or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(2)(a)(iii)(A))**

- b. The visible emissions from the emission unit are not more than 5% opacity in accordance with the methods contained in Rule 303. **(R 336.1290(2)(a)(iii)(B))**
- c. The initial threshold screening level for each particulate toxic air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(2)(a)(iii)(C))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The provisions of Rule 290 apply to each emission unit that is operating pursuant to Rule 290. **(R 336.1290)**
- 2. The following requirements apply to emission units installed on or after December 20, 2016, utilizing control equipment:
 - a. An air cleaning device for volatile organic compounds shall be installed, maintained, and operated in accordance with the manufacturer's specifications. Examples include the following: **(R 336.1290(2)(b)(i), R 336.1910)**
 - i. Oxidizers and condensers equipped with a continuously displayed temperature indication device.
 - ii. Wet scrubbers equipped with a liquid flow rate monitor.
 - iii. Dual stage carbon absorption where the first canister is monitored for breakthrough and replaced if breakthrough is detected.
 - b. An air cleaning device for particulate matter shall be installed, maintained, and operated in accordance with the manufacturer's specifications or the permittee shall develop a plan that provides to the extent practicable for the maintenance and operation of the equipment in the manner consistent with good air pollution control practices for minimizing emissions. It shall also be equipped to monitor appropriate indicators of performance, for example, static pressure drop, water pressure, and water flow rate. **(R 336.1290(2)(b)(ii), R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- 1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the EGLE, AQD Rule 290; Permit to Install Exemption Record form (EQP 3558) or in a format that is acceptable to the AQD District Supervisor. **(R 336.1213(3))**
 - a. Records identifying each air contaminant that is emitted. **(R 336.1213(3))**
 - b. Records identifying if each air contaminant is controlled or uncontrolled. **(R 336.1213(3))**
 - c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. **(R 336.1213(3))**
 - d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(2)(a)(ii) and (iii). **(R 336.1213(3))**

- e. Records of material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in sufficient detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. Volatile organic compound emissions from units installed on or after December 20, 2016, shall be calculated using mass balance, generally accepted engineering calculations, or another method acceptable to the AQD District Supervisor. **(R 336.1213(3), R 336.1290(2)(d))**
 - f. Records are maintained on file for the most recent 2-year period and are made available to the department upon request. **(R 336.1213(3), R 336.1290(2)(e))**
- 2. The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. **(R 336.1213(3))**
 - a. The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. **(R 336.1290(2)(c), R 336.1213(3))**
 - b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate. **(R 336.1213(3))**
 - 3. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. **(R 336.1213(3))**

See Appendix 4

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
- 2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

**FG-CAMUNITS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

The equipment in this flexible group is subject to Compliance Assurance Monitoring, 40 CFR 64.6

Emission Units: EU-GFMELTPOUR (EU-MPCC-S1), EU-GFSANDSYS (EU-SANDSYSTEM-S1), EU-DSMELTPOUR (EU-MP-S1), EU-DSMOLDSAND (EU-SS-S1), EU-DSCOOLSHAK (EU-MCS-S1), EU-DSCOOLSHOT (EU-CCFBACK-S1)

POLLUTION CONTROL EQUIPMENT

1. EU-GFMELTPOUR Baghouse – approximate flow of 49,000 dscfm. (BH# GF608)
2. EU-GFSANDSYS Baghouse – approximate flow of 66,000 dscfm. (BH# GF610)
3. EU-DSMELTPOUR Baghouse – approximate flow of 37,500 acfm. baghouse. (BH# DS602)
4. EU-DSMOLDSAND Baghouse – approximate flow of 56,900 acfm. (BH #DS608)
5. EU-DSCOOLSHAK Baghouse – approximate flow of 61,200 acfm. (BH #DS606)
6. EU-DSCOOLSHOT (CCF2) Baghouse – approximate flow of 65,360 acfm. (BH #DS604)

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. If visible emissions are observed, the permittee shall initiate corrective action, beginning with an evaluation of the occurrence to determine the action necessary to correct the situation. **(40 CFR 64.7(d), 40 CFR 64.6(c))**
2. The permittee shall operate the baghouse’s differential pressure in accordance with the CAM plan. If an excursion occurs outside of this range, the permittee shall initiate corrective action. **(40 CFR 64.7(d), 40 CFR 64.6(c))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall measure the pressure drop and take a daily reading as an indicator of proper operation of the dust collector for EU-DSMOLDSAND, EU-DSCOOLSHOT, EU-DSCOOLSHAK. **(40 CFR 64.6(c)(1)(i and ii))**
2. The permittee shall monitor the bag leak detection system on a continuous basis as an indicator of proper operation of the dust collector for EU-DSMELTPOUR and EU-DSCOOLSHAK. **(40 CFR 64.6(c)(1)(i and ii))**

An excursion is a departure from the indicator range listed in the facility's CAM plan. **(40 CFR 64.6(c)(2))**

3. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**
4. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 40 CFR 64.7(c))**
5. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. **(40 CFR 64.9(a)(2)(i))**
5. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. **(40 CFR 64.9(a)(2)(ii))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**
2. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and, if necessary, submit a proposed modification to the CAM Plan to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. **(40 CFR 64.7(e))**

**FG-DSFOUNDRY
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

All emission units of the new expansion foundry.

Emission Units: EU-DSMELTPOUR (EU-MP-S1), EU-DSCOOLSHAK (EU-MCS-S1), EU-DSMOLDSAND (EU-SS-S1), EU-DSCOOLSHOT (EU-CCFBACK-S1)

POLLUTION CONTROL EQUIPMENT

Baghouses

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Opacity	20% 6-min average, except for one 6-min average per hour that does not exceed 27% ²	6-min average	Buildings or Structures Housing Emission Source at FG-DSFOUNDRY	SC III.1, III.2, III.3, V.I, SC VI.1 - VI.7	40 CFR 63.7690(a)(7)
2. PM10	27.0 tpy ²	12-Month Rolling Time Period	FG-DSFOUNDRY	SC VI.8	40 CFR 52.21 (j)
3. CO	375.5 tpy ²	12-Month Rolling Time Period	FG-DSFOUNDRY	SC VI.8	40 CFR 52.21 (j)
4. VOC	86.6 tpy ²	12-Month Rolling Time Period	FG-DSFOUNDRY	SC VI.8	40 CFR 52.21 (j)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Metal	115,500 tons per year ²	12-month rolling time period	FG-DSFOUNDRY	SC VI.8	40 CFR 52.21 (j)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall maintain, in a format acceptable to the AQD District Supervisor, an operation and maintenance (O&M) plan for each capture and collection system and control device for an emission unit or flexible group subject to an emission limit as described in 40 CFR 63.7710. The plan shall include, but is not limited to, the following:
 - a. Monthly inspections of the equipment that is important to the performance of the total capture system. **(40 CFR 63.7710(b)(1))**
 - b. Operating limits for each capture system for an emission unit subject to a limit for VOHAP. **(40 CFR 63.7710(b)(2))**
 - c. Preventative maintenance plan for each control device, including a schedule. **(40 CFR 63.7710(b)(3))**
 - d. A site-specific monitoring plan for each bag leak detection system. **(40 CFR 63.7710(b)(4))**

- e. Corrective action plan for each baghouse. **(40 CFR 63.7710(b)(5))**
- f. Procedures for igniting gases from mold vents unless it is determined that the mold vent gases are not ignitable, ignite automatically, or cannot be ignited due to accessibility or safety issues. **(40 CFR 63.7710(b)(6))**

The permittee shall maintain and implement the approved O&M plan at all times.² **(40 CFR 63.7710, 40 CFR 63.7745, R 336.1213)**

- 2. The permittee shall comply with the emission limits, work practice standards, and operation and maintenance requirements at all times, except during periods of startup, shutdown, or malfunction.² **(40 CFR 63.7720(a))**
- 3. The permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) in accordance with 40 CFR 63.6(e)(3). This plan must address the startup, shutdown and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The permittee shall operate in accordance with the SSMP when applicable.² **(40 CFR 63.7720(c), 40 CFR 63.6(e)(3))**
- 4. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate at all times according to a written certification that the facility purchases and uses only charge material that does not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics or free organic liquids as specified in 40 CFR 63.7700 (b) –OR– the permittee shall prepare and operate according to an approved written plan for the selection and inspection of iron and steel scrap as specified in 40 CFR 63.7700(c).² **(40 CFR 63.7700(a), 40 CFR 63.7700(b), 40 CFR 63.7700(c))**
- 5. For each capture system subject to the VOHAP limit, the permittee shall establish site-specific operating limits in the O&M plans according to the procedures specified in 40 CFR 63.7733 (a).² **(40 CFR 63.7733 (a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- 1. The permittee shall conduct a performance test to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7), following the test methods and procedures in 40 CFR 63.7732(d). Subsequent compliance testing shall be conducted no less frequently than every 6 months.² **(40 CFR 63.7730(a), 40 CFR 63.7731(b))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- 1. During the period between the compliance date specified for FG-DSFOUNDRY and the date when operating limits have been established during the performance test, the permittee shall maintain a log detailing the operation and maintenance of the process and control equipment.² **(40 CFR 63.7720(b))**
- 2. The permittee shall keep all records specified in 40 CFR 63.7752(a)(1) through (4), records for each CEMS as specified in 40 CFR 63.7752(b)(1) through (4) and records required by 40 CFR 63.7743, 40 CFR 63.7744, and 40 CFR 63.7745, as applicable.² **(40 CFR 63.7752)**
- 3. For the EU-DSMELTPOUR baghouse that is applied to meet any PM or Total Metal HAP emission limit, the permittee shall install, operate, and maintain a bag leak detection system according to the requirements in 40 CFR 63.7741(b) and conduct inspections according to the requirements specified in 40 CFR 63.7740(b)(1) through (8).² **(40 CFR 63.7740(b), 40 CFR 63.7741(b))**
- 4. For each emission unit in FG-DSFOUNDRY, the permittee shall demonstrate initial compliance with the work practice standards and the operation and maintenance requirements as specified in 40 CFR 63.7735 and 40 CFR 63.7736.² **(40 CFR 63.7735, 40 CFR 63.7736)**

5. The permittee shall monitor and collect data to demonstrate continuous compliance in accordance with 40 CFR 63.7742.² **(40 CFR 63.7742)**
6. The permittee shall demonstrate continuous compliance with all applicable emission limitations in accordance with 40 CFR 63.7743.² **(40 CFR 63.7743)**
7. The permittee shall maintain records that document continuous compliance with the requirements of 40 CFR 63.7700(b) or (c) as specified in 40 CFR 63.7744(a).² **(40 CFR 63.7744 (a))**
8. The permittee shall keep the following information on a monthly basis for FG-DSFOUNDRY:
 - a. Tons of metal melted per month.
 - b. Monthly and previous 12-month PM-10, CO, and VOC emission rates, calculated as follows:

Monthly PM-10, CO and VOC emission rates shall be calculated using the following emission factors, or the emission factors established during the most recent tests, whichever is greater:

EU-DSMELTPOUR:
0.018 lb PM-10/ton of melt
2.70 lb CO/ton of melt
0.32 lb VOC/ton of melt

EU-DSCOOOLSHAK:
0.15 lb PM-10/ton of melt
3.80 lb CO/ton of melt
0.94 lb VOC/ton of melt

EU-DSMOLDSAND:
0.14 lb PM-10/ton of melt
0.24 lb VOC/ton of melt

EU-DSCOOOLSHOT:
0.16 lb PM-10/ton of melt

Monthly melt rates shall be multiplied with the appropriate factors from above to determine the monthly PM-10, CO and VOC mass emissions from each baghouse. These monthly emission rates will be added to the previous 11-month total emission rates of each PM-10, CO and VOC to determine 12-month rolling emission rates in tons per year for PM-10, CO and VOC. [Note: Alternate CO and VOC emission factors may be used upon prior approval from the District Supervisor.]

All records shall be kept on file for a period of at least five years and made available to the Department upon request.² **(R 336.1225, R 336.1702(a), 40 CFR 52.21(j))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall report each instance, as applicable, in which each emission limitation and/or operating limit specified in 40 CFR 63.7690, each work practice standard specified in 40 CFR 63.7700, and each operation and

maintenance requirement specified in 40 CFR 63.7710 was not met, in accordance with the requirements of 40 CFR 63.7751.² **(40 CFR 63.7746, 40 CFR 63.7751)**

5. The permittee shall submit applicable notifications specified in 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 63.8(e), 63.8(f)(4) and (6), and 63.9(b) through (h) for an initial notification, a notification of intent to conduct a performance test, and a notification of compliance status as specified in 40 CFR 63.7750.² **(40 CFR 63.7750)**
6. The permittee shall submit all semiannual compliance reports and semiannual reports of monitoring and deviations from any emissions limitation or operation and maintenance requirement as required by 40 CFR 63.7751(a), (b), and (d).² **(40 CFR 63.7751 (a), (b), and (d))**
7. If a startup, shutdown, or malfunction occurs during the semiannual reporting period, that is not consistent with the SSMP, the permittee shall submit an immediate SSM report according to the requirements of 40 CFR 63.10(d)(5)(ii).² **(40 CFR 63.10(d)(5)(ii), 40 CFR 63.7751(c))**

See Appendix 8

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 EEEEE for Iron and Steel Foundries by the initial compliance date.² **(40 CFR Part 63, Subparts A and EEEEE)**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-PAINTLINES
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two GEOMET paint line systems each consisting of a mixing room, a paint spray booth equipped with HVLP applications and dry filter overspray control, and an induction cure process consisting of pre-curing and final cure steps for coating of metallic surfaces. Previous FG ID: FG-COATINGS-S1

Emission Units: EU-PAINTLINE1, EU-PAINTLINE2

POLLUTION CONTROL EQUIPMENT

Dry filter overspray control

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	2,000 pounds per month ²	Calendar month	EU-PAINTLINE1, EU-PAINTLINE2 (Each line)	SC VI.3	R 336.1225, R 336.1702(d)
2. VOC	10 tpy ²	12-month rolling time period as determined at the end of each calendar month	EU-PAINTLINE1, EU-PAINTLINE2 (Each line)	SC VI.3	R 336.1225, R 336.1702(d)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all purge/clean-up solvents and waste coatings from all coating applications used in FG-PAINTLINES. The permittee shall store these materials in closed containers and shall dispose of them in an acceptable manner in compliance with all applicable state rules and federal regulations.² **(R 336.1702(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain FG-PAINTLINES with high volume-low pressure (HVLP) spray applicators or comparable technology with equivalent transfer efficiency (e.g., electrostatic spray, dip, flowcoat, roller, dip-spin). For HVLP applicators, the permittee shall keep test caps available for pressure testing.² **(R 336.1702(d))**
2. The permittee shall not operate any FG-PAINTLINES paint spray booth unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner.² **(R 336.1224, R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 60 days of notification by the AQD, verification of VOC emissions and VOC content (in pounds per gallon) of any coating, reducer or purge/clean-up solvent, as applied or as received, using federal Reference Test Method 25A, Method 24 or other EPA approved reference method, may be required for continued operation. Verification of the emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. Upon prior written approval by the AQD District Supervisor, VOC content may

alternatively be determined from manufacturer's formulation data. If the Method 25A or Method 24 should differ from the formulation values, the permittee shall use the Method 25A or Method 24 results to determine compliance.² **(R 336.2001, R 336.2003, R 336.2004, R 336.1702(d))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1225, R 336.1702(d))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records and make them available to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702(d))**
3. The permittee shall keep the following information on a calendar month basis for FG-PAINTLINES:
 - a. Purchase orders and invoices for all coatings, reducers, and purge/clean-up solvents.
 - b. VOC content, in pounds per gallon, of each coating, reducer and purge/clean-up solvent used.
 - c. Gallons of each coating, reducer and purge/clean-up solvent used and reclaimed.
 - d. VOC mass emission calculations determining the monthly emission rate for each coating line in pounds per calendar month.
 - e. VOC mass emission calculations determining the annual emission rate for each coating line, in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1225, R 336.1702(d))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-MixRoom1	8 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
2. SV-SprayBooth1	24 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
3. SV-InducCure1	24 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
4. SV-MixRoom2	8 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
5. SV-SprayBooth2	24 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
6. SV-InducCure2	24 ²	40 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-METALLIC
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

All metallic surface coating lines and all associated purge and clean-up operations at the stationary source. This includes any metallic surface coating line covered by this or any other general permit or any permit to install issued pursuant to Rule 201, and any metallic surface coating line exempt from the requirement to obtain a permit to install pursuant to Rule 287 and/or Rule 290. Previous FG ID: FG-SOURCE-S1

Emission Unit: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	30 tpy ²	Based on a 12-month rolling time period as determined at the end of each calendar month	FG-METALLIC	SC VI.2	R 336.1225, R 336.1702(d)

II. MATERIAL LIMIT(S)

NA

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 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² (R 336.1225, R 336.1702(d))
2. The permittee shall keep VOC mass emission calculations, on a monthly basis for FG-METALLIC determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month, for all metallic surface coating lines and associated purge and clean-up operation at the source. The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.² (R 336.1225, R 336.1702(d))

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

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).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-MACTMMMM
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Each new, reconstructed, and existing affected source described in 40 CFR 63.3881(a)(1), including the subcategories listed in 40 CFR Part 63, Subpart MMMM, 40 CFR 63.3881(a)(2) through (6), meeting the applicability requirements of 40 CFR 63.3881(b), which is engaged in the surface coating of miscellaneous metal parts and products. The affected source includes the collection of all the items listed in 40 CFR 63.3882(b)(1) through (4). Surface coating is defined by 40 CFR 63.3881 as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating. The 40 CFR, Part 63, Subpart MMMM, does not apply to surface coating or a coating operation that meets any of the criteria of 40 CFR 63.3881(c)(1) through (17).

Emission Units: EU-PAINTLINE1, EU-PAINTLINE2

POLLUTION CONTROL EQUIPMENT

Dry filter overspray control

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	1.9 lbs per gal of coating solids ²	12-month rolling time period *	New or Reconstructed - General Use Coating	SC VI.1 through VI.5	40 CFR 63.3890(a)(1)

* As determined at the end of each calendar month.

2. The permittee shall determine whether the organic HAP emission rate is equal to or less than the applicable emission limits in 40 CFR 63.3890 using at least one of the following three options, which are listed in 40 CFR 63.3891(a) through (c):
 - a. Compliant material option,
 - b. Emission rate without add-on controls option, or
 - c. Emission rate with add-on controls option.

The permittee shall include all coatings, thinners, and/or other additives, and cleaning materials used when determining the emission rate.² **(40 CFR 63.3891)**

3. Any coating operation(s) using the compliant material option or the emission rate without add-on controls option, shall be in compliance with the applicable emission limits in 40 CFR 63.3890 at all times.² **(40 CFR 63.3900(a)(1))**
4. If the surface coating operation(s) meet the applicability criteria of more than one of the subcategory emission limits specified in 40 CFR 63.3890(a) or (b), the permittee may comply separately with each subcategory emission limit, or comply using one of the alternatives in 40 CFR 63.3890(c)(1) or (2).² **(40 CFR 63.3890(c))**

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Each Thinner and/or Additive	No Organic HAP *2	Continuous	Each coating operation using compliant material option	SC VI.1, VI.2, VI.3, and VI.4	40 CFR 63.3891(a)
2. Each Cleaning Material	No Organic HAP *2	Continuous	Each coating operation using compliant material option	SC VI.1, VI.2, VI.3, and VI.4	40 CFR 63.3891(a)

* Determined according to 40 CFR 63.3941(a).

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 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep all records required by 40 CFR 63.3930 in the format and timeframes outlined in 40 CFR 63.3931.² **(40 CFR 63.3942(d), 40 CFR 63.3952(d), 40 CFR 63.3963(j))**
2. The permittee shall maintain, at a minimum, the following records for each compliance period:²
 - a. A copy of each notification and report that is submitted to comply with Subpart MMMM, and the documentation supporting each notification and report. **(40 CFR 63.3930(a))**
 - b. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density of each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. **(40 CFR 63.3930(b))**
 - c. A list of the coating operations on which each compliance option was used, and the beginning and ending dates and times for each compliance option used. **(40 CFR 63.3930(c)(1))**
 - d. For the compliant materials option, the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.3941. **(40 CFR 63.3930(c)(2))**
 - e. For the emission rate without add-on controls option, the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or additives, and cleaning materials used each month using Equations 1, 1A through 1C and 2 of 40 CFR 63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of 40 CFR 63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.3951. **(40 CFR 63.3930(c)(3))**
 - f. The name and mass or volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the compliant material option is used for all coatings at the affected

source, the permittee may maintain purchase records for each material used rather than a record of the volume used. **(40 CFR 63.3930(d))**

- g. The mass fraction of organic HAP for each coating, thinner and/or additive, and cleaning material used during each compliance period unless the material is tracked by weight. **(40 CFR 63.3930(e))**
 - h. The volume fraction of coating solids for each coating used during each compliance period. **(40 CFR 63.3930(f))**
 - i. For either the emission rate without add-on controls option, the density of for each coating, thinner and/or other additive, and cleaning material used during each compliance period. **(40 CFR 63.3930(g))**
 - j. The information specified in 40 CFR 63.3930(h)(1) through (3), if an allowance is used in Equation 1 of 40 CFR 63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.3951(e)(4). **(40 CFR 63.3930(h))**
 - k. The date, time, and duration of each deviation. **(40 CFR 63.3930(j))**
3. For each coating used for the compliant coating option, the permittee shall demonstrate continuous compliance with the emission limit in 40 CFR 63.3890, for each compliance period, using Equation 2 of 40 CFR 63.3941. For each thinner and cleaning material used, the permittee shall determine continuous compliance according to 40 CFR 63.3941(a).² **(40 CFR 63.3942)**
 4. For any coating operation or group of coating operations using the emission rate without add-on controls option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.3890, for each compliance period, according to 40 CFR 63.3951(a) through (g).² **(40 CFR 63.3952)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. For the compliant material option, if any coating used for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890; or any thinner or cleaning material used contains any organic HAP, the permittee shall report this as a deviation as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(5).² **(40 CFR 63.3942(b))**
5. For the emission rate without add-on controls, if the organic HAP emission rate for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890, the permittee shall report this as a deviation as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(6).² **(40 CFR 63.3952(b))**
6. The permittee shall submit the applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), an initial notification and a notification of compliance status as specified in 40 CFR 63.3910.² **(40 CFR Part 63, Subparts A and MMMM)**
7. The permittee shall submit all semiannual compliance reports specified in 40 CFR 63.3920(a). Each semiannual compliance report shall identify which coating operation(s) used each compliance option, and if there were no deviations from the emission limitations in 40 CFR 63.3890, include a statement that the coating operations were in compliance.² **(40 CFR 63.3920, 40 CFR 63.3942(c), 40 CFR 63.3952(c), 40 CFR 63.3963(f))**

See Appendix 8

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 M MMM for Surface Coating of Miscellaneous Metal Parts and Products by the initial compliance date.² **(40 CFR Part 63, Subparts A and M MMM)**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-GRINDERS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two Reichmann grinders for automatic deburring of round parts including brake discs, clutch plates and other miscellaneous metal parts. The grinders are exhausted to a 70,000 ACFM fabric filter collector. The fabric filter collector will be used for future in plant environment control.

Emission Units: EU-GRINDER1, EU-GRINDER2

POLLUTION CONTROL EQUIPMENT

A Waltz-Holtz Dustar 70,000 ACFM reverse air fabric filter collector. The fabric filter collector will also be used for future in plant environment control.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.016 lb/1,000 lbs of exhaust gas ²	Hourly	FG-GRINDERS	SC V.1	R 336.1331 R 336.1205(3)
2. PM	5.13 pph ²	Hourly	FG-GRINDERS	SC V.1	R 336.1205(3)
3. PM10	3.07 pph ²	Hourly	FG-GRINDERS	SC V.1	R 336.1205(3)
4. PM2.5	2.03 pph ²	Hourly	FG-GRINDERS	SC V.1	R 336.1205(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate FG-GRINDERS unless the associated capture system and baghouse control system are installed and operating in accordance with the approved operation and maintenance (O&M) plan.² (R 336.1224, R 336.1225, R 336.1910, 40 CFR 52.21(j))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate FG-GRINDERS unless the associated capture system and baghouse control system are installed and operating in accordance with the approved operation and maintenance (O&M) plan.² (R 336.1224, R 336.1225, R 336.1910, 40 CFR 52.21(j), 40 CFR Part 63.6 (e)(1)(i), 40 CFR 63.7710)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall verify PM, PM10, and PM2.5 emission rates from FG-GRINDERS by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M

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 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 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

2. The permittee shall verify the PM, PM10, and PM2.5 emission rates from FG-GRINDERS, at a minimum, every five years from the date of the last test. **(R 336.1213(3), 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 336.1213(3))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a gauge to monitor and record the pressure drop across the FG-GRINDERS baghouse on a continuous basis when the baghouse is operating.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(j))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. 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 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

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 Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV2	60 ²	118 ²	40 CFR 52.21 (c) & (d), R 336.2803, R 336.2804 R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-MACT5E_Existing
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

The affected source is an existing iron and steel foundry, that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. An existing affected source is a source that commences construction or reconstruction before December 23, 2002. The regulations cover emissions from metal melting furnaces, scrap preheaters, new pouring areas, pouring stations, new automated conveyor and new pallet cooling lines, new automated shakeout lines, mold and core making lines, and fugitive emissions from foundry operations.

Emission Unit: EU-GFMELTPOUR

POLLUTION CONTROL EQUIPMENT

49,000 dscfm baghouse (BH# GF608)

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 27%	6-min average	Each Building or Structure Housing any Iron or Steel Foundry Emission Source at FG-MACT5E_Existing	SC V.1, & VI.1 – VI.6	40 CFR 63.7690(a)(7)
2. PM ---OR--- Total Metal HAP	0.005 gr/dscf ---OR--- 0.0004 gr/dscf ^a	Hourly	Existing Electric Arc or Electric Induction Melting	SC IV. 1, V.2 - V.5 VI.1, & VI.2	40 CFR 63.7690(a)(1)(i) or (ii)

^aIn accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined emission limit shall be considered compliance with the emission limit established by 40 CFR 63.7690(a)(5)(i) or (ii) for existing pouring stations, an additional applicable requirement that has been subsumed within this condition.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall submit to the AQD District Supervisor, for review and approval, an operation and maintenance (O&M) plan for each capture and control system and control device for an emission unit subject to an emission limit as described in 40 CFR 63.7710. The plan shall include, but is not limited to, the following:
 - a. Monthly inspections of the equipment that is important to the performance of the total capture system. **(40 CFR 63.7710(b)(1))**
 - b. Operating limits for each capture system for an emission unit subject to a limit for VOHAP or TEA. **(40 CFR 63.7710(b)(2))**
 - c. Preventative maintenance plan for each control device, including a schedule. **(40 CFR 63.7710(b)(3))**
 - d. A site-specific monitoring plan for each bag leak detection system. **(40 CFR 63.7710(b)(4))**

- e. Corrective action plan for each baghouse. **(40 CFR 63.7710(b)(5))**
- f. Procedures for igniting gases from mold vents. **(40 CFR 63.7710(b)(6))**

The permittee shall maintain and implement the approved O&M plans at all times. **(40 CFR 63.7710, 40 CFR 63.7745)**

- 2. For each capture system, wet scrubber, acid wet scrubber, or combustion device, the permittee shall establish site-specific operating limits in the O&M plans according to the procedures specified in 40 CFR 63.7733. **(40 CFR 63.7733)**
- 3. The permittee shall comply with the emission limits, work practice standards, and operation and maintenance requirements at all times. **(40 CFR 63.7720(a))**
- 4. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate at all times according to a written certification that the facility purchases and uses only charge material that does not include post-consumer automotive body scrap, post-consumer engine blocks, oil filters, oily turnings, lead components, mercury switches, plastics or organic liquids. **(40 CFR 63.7700(a), 40 CFR 63.7700(b))**
- 5. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate according to a written plan for the selection and inspection of iron and steel scrap as specified in 40 CFR 63.7700(c). **(40 CFR 63.7700(a), 40 CFR 63.7700(c))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall monitor the relative change in PM loading using a bag leak detection system for any baghouse used to meet PM or Total Metal HAP emission limits. **(40 CFR 63.7740(b))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- 1. The permittee shall conduct a performance test to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7), following the test methods and procedures in 40 CFR 63.7732(d). Subsequent compliance testing shall be conducted no less frequently than every 6 months. **(40 CFR 63.7730(a), 40 CFR 63.7731(b))**
- 2. The permittee shall conduct performance testing to demonstrate compliance with applicable PM or Total Metal HAP, TEA, and VOHAP emission rates from FG-MACT5E_Existing according to the requirements in 40 CFR 63.7(e)(1), following the test methods and procedures in 40 CFR 63.7732(b), (c), (e), (f), (g) and (h). No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(40 CFR 63.7730(a))**
- 3. The permittee shall submit the results of performance testing to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) within 60 days after the date of completion of each performance test. **(40 CFR 63.7751(f))**
- 4. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits, no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance. **(40 CFR 63.7731(a))**
- 5. The permittee shall verify the PM or Total Metal HAP emission rates from FG-MACT5E_Existing at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
- 6. 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 336.1213(3))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each baghouse that is applied to meet any PM or Total Metal HAP emission limit, the permittee shall install, operate, and maintain a bag leak detection system according to the requirements in 40 CFR 63.7741(b) and conduct inspections according to the requirements specified in 40 CFR 63.7740(b)(1) through (8). **(40 CFR 63.7740(b), 40 CFR 63.7741(b))**
2. If a control device other than a baghouse, wet scrubber, wet acid scrubber, or combustion device is used, the permittee shall prepare and submit a monitoring plan containing the information in 40 CFR 63.7690(c)(1) through (5). **(40 CFR 63.7690(c))**
3. For each emission unit in FG-MACT5E_Existing the permittee shall demonstrate initial compliance with the work practice standards and the operation and maintenance requirements as specified in 40 CFR 63.7735 and 40 CFR 63.7736. **(40 CFR 63.7735, 40 CFR 63.7736)**
4. The permittee shall monitor and collect data to demonstrate continuous compliance in accordance with 40 CFR 63.7742. **(40 CFR 63.7742)**
5. The permittee shall demonstrate continuous compliance with all applicable emission limitations in accordance with 40 CFR 63.7743. **(40 CFR 63.7743)**
6. The permittee shall maintain records that document continuous compliance with the requirements of 40 CFR 63.7700(b) or (c) as specified in 40 CFR 63.7744(a). **(40 CFR 63.7744)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. 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 336.1213(3)(c), R 336.2001(5))**
5. The permittee shall report each instance in which each emission limitation, each work practice standard, and each operation and maintenance requirement was not met, in accordance with the requirements of 40 CFR 63.7751. **(40 CFR 63.7746, 40 CFR 63.7751)**
6. The permittee shall submit applicable notifications specified in 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), 40 CFR 63.8(f)(4) through (6), and 40 CFR 63.9(d) through (h) for a notification of intent to conduct a performance test, and a notification of compliance status as specified in 40 CFR 63.7750. **(40 CFR 63.7750)**
7. The permittee shall submit all semiannual compliance reports and semiannual reports of monitoring and deviations from any emissions limitation or operation and maintenance requirement as required by 40 CFR 63.7751(a), (b), and (d). **(40 CFR 63.7751 (a), (b), and (d))**
8. The permittee shall submit all semiannual compliance reports to the EPA via CEDRI. **(40 CFR 63.7751(e))**

See Appendix 8

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 EEEEE for Iron and Steel Foundries by the compliance date. **(40 CFR Part 63, Subparts A and EEEEE)**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FG-MACT5E_New
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

The affected source is a new iron and steel foundry, that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. A new affected source is a source that commences construction or reconstruction on or after December 23, 2002. The regulations cover emissions from metal melting furnaces, scrap preheaters, new pouring areas, pouring stations, new automated conveyor and new pallet cooling lines, new automated shakeout lines, mold and core making lines, and fugitive emissions from foundry operations.

Emission Units: EU-DSMELTPOUR, EU-DSCOOLSHAK

POLLUTION CONTROL EQUIPMENT

EU-DSMELTPOUR: 37,500 acfm baghouse

EU-DSCOOLSHAK: Emissions from these processes are controlled by associated hoods, enclosures, ductwork, a baghouse, and a regenerative thermal oxidizer. The exhaust gas flow from this unit is approximately 61,200 acfm.

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 27%	6-minute average	Each Building or Structure Housing any Iron or Steel Foundry Emission Source at FG-MACT5E_New	SC V.1, & VI.1 – VI.9	40 CFR 63.7690(a)(7)
2. PM ---OR--- Total Metal HAP	0.001 gr/dscf ---OR--- 0.00008 gr/dscf ^a	Hourly	New Electric Induction Melting in EU-DSMELTPOUR	SC IV.6, V.2 – V.5, VI.4, & VI.6 – VI.9	40 CFR 63.7690(a)(4)(i) or (ii)
3. Volatile Organic HAP (VOHAP)	20 ppmv	3-hour flow weighted average	New Automated Conveyor and Pallet Cooling Lines in EU-DSCOOLSHAK	SC IV.3 – IV.5, V.2 - V.5, VI.1 - VI.3, & VI.5 – VI.9	40 CFR 63.7690(a)(10) 40 CFR 63.7740(h)

^aIn accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined emission limit shall be considered compliance with the emission limit established by 40 CFR 63.7690(a)(5)(i) or (ii) for new pouring stations, an additional applicable requirement that has been subsumed within this condition.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall submit to the AQD District Supervisor, for review and approval, an operation and maintenance (O&M) plan for each capture and control system and control device for an emission unit subject to an emission limit as described in 40 CFR 63.7710. The plan shall include, but is not limited to, the following:

- a. Monthly inspections of the equipment that is important to the performance of the total capture system. **(40 CFR 63.7710(b)(1))**
- b. Operating limits for each capture system for an emission unit subject to a limit for VOHAP or TEA. **(40 CFR 63.7710(b)(2))**
- c. Preventative maintenance plan for each control device, including a schedule. **(40 CFR 63.7710(b)(3))**
- d. A site-specific monitoring plan for each bag leak detection system. **(40 CFR 63.7710(b)(4))**
- e. Corrective action plan for each baghouse. **(40 CFR 63.7710(b)(5))**
- f. Procedures for igniting gases from mold vents. **(40 CFR 63.7710(b)(6))**

The permittee shall maintain and implement the approved O&M plans at all times. **(40 CFR 63.7710, 40 CFR 63.7745)**

2. For each capture system, wet scrubber, acid wet scrubber, or combustion device, the permittee shall establish site-specific operating limits in the O&M plans according to the procedures specified in 40 CFR 63.7733. **(40 CFR 63.7733)**
3. The permittee shall comply with the emission limits, work practice standards, and operation and maintenance requirements at all times. **(40 CFR 63.7720(a))**
4. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate at all times according to a written certification that the facility purchases and uses only charge material that does not include post-consumer automotive body scrap, post-consumer engine blocks, oil filters, oily turnings, lead components, mercury switches, plastics or organic liquids. **(40 CFR 63.7700(a), 40 CFR 63.7700(b))**
5. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate according to a written plan for the selection and inspection of iron and steel scrap as specified in 40 CFR 63.7700(c). **(40 CFR 63.7700(a), 40 CFR 63.7700(c))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate an emission source subject to an emission limit or standard for VOHAP or TEA unless the associated capture and control system is installed, operated and maintained in accordance with the approved operation and maintenance (O&M) plan. **(40 CFR 63.7690(b), 40 CFR 63.7710)**
2. If the permittee installs a CEMS in order to monitor compliance with the VOHAP limit in 40 CFR 63.7690(a), the CEMS and appropriate flow meters shall be installed at a location(s) such that the monitor(s) will provide the VOHAP concentration of the automated pallet (mold) cooling line and automated shakeout lines (as defined in 40 CFR 63.7765) separate from any dilution caused by air flow captured from equipment that is not associated with the automated pallet (mold) cooling line and automated shakeout lines. **(40 CFR 63.7741(g), 40 CFR 63.7690(a)(10), 40 CFR 63.7732(f))**
3. The permittee shall install, operate, and maintain a Continuous Parameter Monitoring System (CPMS) for each combustion device for emission units subject to the VOHAP or TEA emission limitations, to measure and record the combustion zone temperature according to the requirements in 40 CFR 63.7741(d). **(40 CFR 63.7740(a), 40 CFR 63.7740(d), 40 CFR 63.7741(d))**
4. The permittee shall install, operate and maintain a Continuous Parameter Monitoring System (CPMS) for each capture system (wet scrubber, combustion device, or wet acid scrubber) subject to an operating limit in 40 CFR 63.7690(b)(1), according to the requirements in 40 CFR 63.7740(a)(1) and (2) and 40 CFR 63.7741(a). **(40 CFR 63.7740(a), 40 CFR 63.7741(a))**

5. The permittee shall operate each CPMS according to the requirements of 40 CFR 63.7741(f)(1) through (3). **(40 CFR 63.7741(f))**
6. The permittee shall monitor the relative change in PM loading using a bag leak detection system for any baghouse used to meet PM or Total Metal HAP emission limits. **(40 CFR 63.7740(b))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall conduct a performance test to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7), following the test methods and procedures in 40 CFR 63.7732(d). Subsequent compliance testing shall be conducted no less frequently than every 6 months. **(40 CFR 63.7730(a), 40 CFR 63.7731(b))**
2. The permittee shall conduct performance testing to demonstrate compliance with applicable PM or Total Metal HAP, TEA, and VOHAP emission rates from FG-MACT5E_New according to the requirements in 40 CFR 63.7(e)(1), following the test methods and procedures in 40 CFR 63.7732(b), (c), (e), (f), (g) and (h). No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(40 CFR 63.7730(a))**
3. The permittee shall submit the results of performance testing to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) within 60 days after the date of completion of each performance test. **(40 CFR 63.7751(f))**
4. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits, no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance. **(40 CFR 63.7731(a))**
5. The permittee shall verify the PM or Total Metal HAP and VOHAP emission rates from FG-MACT5E_New, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
6. 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 336.1213(3))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For applicable cooling and shakeout lines, the permittee shall monitor at all times the 3-hour average VOHAP concentration using a CEMS according to the requirements of 40 CFR 63.7741(g). **(40 CFR 63.7740(g))**
2. For applicable cooling and shakeout lines, the permittee may apply for alternative monitoring requirements for a CEMS according to the procedures in 40 CFR 63.7747. **(40 CFR 63.7747)**
3. The permittee shall keep all records specified in 40 CFR 63.7752(a)(1) through (4), records for each continuous emission monitoring system (CEMS) as specified in 40 CFR 63.7752(b)(1) through (4) and records required by 40 CFR 63.7743, 40 CFR 63.7744, and 40 CFR 63.7745. **(40 CFR 63.7752)**
4. For each baghouse that is applied to meet any PM or Total Metal HAP emission limit, the permittee shall install, operate, and maintain a bag leak detection system according to the requirements in 40 CFR 63.7741(b) and conduct inspections according to the requirements specified in 40 CFR 63.7740(b)(1) through (8). **(40 CFR 63.7740(b), 40 CFR 63.7741(b))**

5. If a control device other than a baghouse, wet scrubber, wet acid scrubber, or combustion device is used, the permittee shall prepare and submit a monitoring plan containing the information in 40 CFR 63.7690(c)(1) through (5). **(40 CFR 63.7690(c))**
6. For each emission unit in FG-MACT5E_New, the permittee shall demonstrate initial compliance with the work practice standards and the operation and maintenance requirements as specified in 40 CFR 63.7735 and 40 CFR 63.7736. **(40 CFR 63.7735, 40 CFR 63.7736)**
7. The permittee shall monitor and collect data to demonstrate continuous compliance in accordance with 40 CFR 63.7742. **(40 CFR 63.7742)**
8. The permittee shall demonstrate continuous compliance with all applicable emission limitations in accordance with 40 CFR 63.7743. **(40 CFR 63.7743)**
9. The permittee shall maintain records that document continuous compliance with the requirements of 40 CFR 63.7700(b) or (c) as specified in 40 CFR 63.7744(a). **(40 CFR 63.7744)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**
5. The permittee shall report each instance in which each emission limitation, each work practice standard, and each operation and maintenance requirement was not met, in accordance with the requirements of 40 CFR 63.7751. **(40 CFR 63.7746, 40 CFR 63.7751)**
6. The permittee shall submit applicable notifications specified in 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), 40 CFR 63.8(f)(4) through (6), and 40 CFR 63.9(b) through (h) for an initial notification, a notification of intent to conduct a performance test, and a notification of compliance status as specified in 40 CFR 63.7750. **(40 CFR 63.7750)**
7. The permittee shall submit all semiannual compliance reports and semiannual reports of monitoring and deviations from any emissions limitation or operation and maintenance requirement as required by 40 CFR 63.7751(a), (b), and (d). **(40 CFR 63.7751 (a), (b), and (d))**
8. The permittee shall submit all semiannual compliance reports to the EPA via CEDRI. **(40 CFR 63.7751(e))**

See Appendix 8

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 EEEEE for Iron and Steel Foundries by the compliance date. **(40 CFR Part 63, Subparts A and EEEEE)**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

APPENDICES

Appendix 1. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/ department	Michigan Department of Environment, Great Lakes, and Energy	gr	Grains
EGLE	Michigan Department of Environment, Great Lakes, and Energy	HAP	Hazardous Air Pollutant
EU	Emission Unit	Hg	Mercury
FG	Flexible Group	hr	Hour
GACS	Gallons of Applied Coating Solids	HP	Horsepower
GC	General Condition	H ₂ S	Hydrogen Sulfide
GHGs	Greenhouse Gases	kW	Kilowatt
HVLP	High Volume Low Pressure*	lb	Pound
ID	Identification	m	Meter
IRSL	Initial Risk Screening Level	mg	Milligram
ITSL	Initial Threshold Screening Level	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	NMOC	Non-methane Organic Compounds
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MSDS	Material Safety Data Sheet	ng	Nanogram
NA	Not Applicable	PM	Particulate Matter
NAAQS	National Ambient Air Quality Standards	PM10	Particulate Matter equal to or less than 10 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	%	Percent
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

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

Appendix 2. Schedule of Compliance

The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. (R 336.1213(4)(a), R 336.1119(a)(ii))

Appendix 3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in EU-DSCOOLSHAK.

VOC Monitoring CEMS Requirements

1. Within 60 days of completion of testing, the permittee shall submit to the AQD two copies of the final report demonstrating the CEMS complies with the requirements of Performance Specification (PS) 8.
2. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations.
3. The CEMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR Part 60.13 and PS 8 of Appendix B to 40 CFR Part 60.
4. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS set forth in Appendix F of 40 CFR Part 60. Within 30 days following the end of each calendar quarter, the permittee shall submit the results to the AQD in the format of the data assessment report (Figure 1, Appendix F).

Appendix 4. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-N5814-2015. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-N5814-2015 is being reissued as Source-Wide PTI No. MI-PTI-N5814-2021.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
184-17	Notification of Change 201800097*	Adding two Reichmann grinders for automatic deburring of round parts including disc breaks, clutch plates, and other metal parts. The grinders are exhausted to a Waltz-Holtz Dustar 70,000 ACFM reverse air fabric filter collector.	FG-GRINDERS

Appendix 7. Emission Calculations

Specific emission calculations to be used with monitoring, testing or recordkeeping data are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.